

**FCT-Tenure | 1st Edition**  
2023.11076.TENURE.017

Status  
**Grant**

Closes in  
**01.03.2024 17h00 GMT**

## Positions

**Assistant Professor in History of Science; CIUHCT Chair**

Research unit/Associate laboratory chair

### Job category

Assistant professor

### Hiring Institution

Universidade Nova de Lisboa

### Additional host institution

Universidade Nova de Lisboa - Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa  
Centro Interuniversitário de História das Ciências e da Tecnologia

### Call's publication date

April to June 2024

### Scientific domain

Humanities

### Scientific area

History and Archaeology

### Scientific sub-area

History of Science and Technology

### Field(s) description

Social and Applied Sciences with emphasis in History of Science, science diplomacy, science in imperial contexts

### Position's alignment with SDGs of the United Nations 2030 Agenda

SDG Goal 4: Quality Education

SDG Goal 16: Peace, Justice and Strong Institutions

### Research unit/Associate laboratory chair

### Name of the Host Research Unit/Associate Laboratory

Centro Interuniversitário de História das Ciências e da Tecnologia

### Commitment Declaration

[minuta\\_declaracao\\_FCT Tenure\\_academica\\_docencia\\_CIUHCT\\_signed.pdf](#)

Obtained on 29-02-2024 at 12:00:48

### Does it involve co-funding?

0%

### Job description, scientific profile and rationale

The position aims at strengthening and the research in the area of History of Science, both by addressing specific areas within the field and by discussing and proposing new methodologies and concepts that may contribute to better understand contemporary society and address

its current major topics of discussion. The use of a historical global perspective allows to refocus the “research, lens” looking at the present not as an isolated island in time, but as the result of a complex web of relationships in time and space. This research dialogues vigorously with the objectives of the Department of Applied Social Sciences at NOVA School of Science, that is, the training of responsible scientists and engineers, with an interdisciplinary approach to research, capable of critically understanding contemporary challenges.

This Assistant Professor position is, thus, pivotal in fostering a comprehensive understanding of science, promoting academic excellence. Furthermore, its alignment with Sustainable Development Goals underscores its potential to contribute meaningfully to broader global objectives. In line with the department's commitment to providing a forward-looking education, this position ensures that students are well-prepared for the challenges and opportunities that lie ahead in the evolving landscape of science, technology and society.

Key responsibilities include:

1. Contribute to curriculum development and innovation within the Applied Social Sciences Department, particularly, but not exclusively in the area of History of Science
2. Conduct cutting-edge research in the History of Science
3. Supervise graduate students and mentor undergraduate researchers in research projects related to History of Science
4. Produce scholarly publications in reputed international journals and academic presses
5. Actively participate in international research networks and societies in the HC area – e.g. Tensions of Europe, The History of Science Society, European Society for the History of Science – and foster a wider relationship with Portuguese speaking countries.

Scientific Profile:

- PhD with proven expertise in conducting research projects within the History of Science particularly in the areas mentioned in 4.4.
- Proven expertise in conducting research projects within the History of Science.
- Experience in mentoring students, delivering advanced training, and instructing both undergraduate and graduate courses.
- Track record of successfully securing external research funding and a robust publication history in reputed scientific journals.
- Strong leadership and communication skills, with the ability to collaborate effectively within interdisciplinary teams.

### **Benefits and resources offered to the selected candidate**

The selected candidate will receive support from NOVA School of Science and Technology, the Department of Applied Social Sciences (DCSA), and the Interuniversity Centre for the History of Sciences and Technology (CIUHCT).

NOVA School of Science and Technology adopts an interdisciplinary approach to training scientists and engineers, fostering the social and civic responsibility of future scientists and engineers.

DCSA offers diverse undergraduate, master's, and doctoral programs in the social and human sciences. CIUHCT, graded Exceptional in 2015 and Excellent in 2019, has a strong international network.

The campus provides an ideal environment for Science and Technology Studies research, promoting daily interaction among scientists, engineers, historians, sociologists, economists, and philosophers. This dynamic academic community offers networking opportunities, well-equipped facilities, an active library, and a cultural program. The campus also features a kindergarten for younger researchers, addressing work-life balance.

DCSA ensures mentorship, peer support, and encouragement for collaborative initiatives. Within CIUHCT, the candidate will have a secure environment for research activities, access to resources, research funding opportunities, and involvement in individual and collaborative projects. The candidate's research identity is respected, allowing them to leverage existing international networks, collaborate with experts, and benefit from the research unit's scientific reputation nationally and internationally.

This robust support system demonstrates the commitment of the hosting institutions to create a conducive environment for scholarly achievement and career advancement in Science and Technology Studies. The selected candidate can anticipate a fulfilling and well-supported academic experience, with resources tailored for effective teaching, research, and overall professional development.

### **Context, expected impact, and relevance of the scientific profile**

NOVA fosters responsible and interdisciplinary research and training promoting a multilayer dialogue among scientific areas within an academic context that favors international networking, collaborative research, and solidarity and sustainable development (Portuguese speaking countries deserve special attention). At the core of NOVA is the interinstitutional exchange oriented to an integration of different scientific cultures with the purpose of creating innovative synergies for teaching and research.

This position addresses all these guidelines, proposing specific research that will allow these strategic lines to be substantiated. The proposed research, in this case in the area of History of Science, focuses on Portugal but within an international perspective; its object of study is inherently interdisciplinary as it crisscrosses social sciences and the practices of science and technology; by aiming to disclose the historical movements that lead to major contemporary issues, such as sustainability and social responsibility, it summons different scientific cultures united in the will to find solutions to current challenges. Being the only Portuguese research unit fully dedicated to the History of Science Technology CIUHCT's scientific agenda aims at strengthening of the area in the national context and reinforcing its status as a crucial player at the international level. CIUHCT is particularly committed to inscribe the knowledge and practices of Science and Technology in historical narratives, to increase the presence and visibility of Portuguese research in this field in the international map, to foster transdisciplinary and to assess contemporary issues and citizenship through the History of Science and Technology lenses.

NOVA School of Science and Technology has in its DNA an interdisciplinary approach to training of its students not only by crisscrossing techno-scientific areas, but also by securing their training as far as social and civic responsibility is concerned. This is a unique case in the national academic landscape, which translates into the existence of the Department of Applied Social Sciences, with its disciplines, master's and doctoral programs in areas of social and human sciences, and the hosting of the Interuniversity Center for History of Sciences and Technology – CIUHCT. The Department of Applied Social Sciences is fully integrated in NOVA School of Science and Technology's long-standing strategy, collaborating in all school activities in interaction with other departments, centers and scientific fields. The scientific area of History of Science and Technology in which this position is included has been one of the pillars of the faculty's research, pedagogic, and outreach strategies, as can be attested by the fact that it is the only faculty in Portugal with an Honoris Causa in History of Technology. This position is part of a wider strategy designed by all institutions involved in this proposal.



# Institutions information

## Hiring institution

Universidade Nova de Lisboa

## Profile of the research staff of the hiring institution

Description	Number
Total number of integrated PhD holders, with a fulltime permanent contract as a researcher (ECIC or equivalent), associated with the Institution on 30/11/2023	16
Total number of integrated PhD holders, with a fulltime permanent contract as a professor (ECDU, ECPDESP or equivalent), associated with the Institution on 30/11/2023	420
Total number of PhD holders, with non-permanent fulltime research contracts (“Norma Transitória”, non-permanent “FCT-CEEC”, “Bolsas inv. pós-doutoral”, etc.) associated with the Institution on 30/11/2023	114

## Scientific, hiring plan and hosting conditions

### Description of the Hiring Institution

NOVA University Lisbon (NOVA) is a public Higher Education Institution whose mission is to serve society through knowledge & education, locally and globally, by developing teaching & research of excellence that create significant social & economic value. The fulfilment of its triple mission - Teaching, Research and Value Creation – requires (i) an academic environment that embraces equality, inclusion and free thinking to attract the best students from different cultural backgrounds and into the most diverse fields of knowledge, enabling them to discover their potential and develop their individual talent, (ii) high-quality teaching with a strong international setting in all cycles of studies, student-centered and closely linked with cutting-edge research, delivered by leading academics who are able to provide students with the necessary skills and knowledge to successfully develop a career anywhere in the world; (iii) a collaborative research within the University and with highly specialized and interdisciplinary strategic partner institutions of international relevance, aimed at creating innovative and impactful results to address complex challenges; and (iv) a knowledge-based & high-impact value creation activity, developed in collaboration with society & the economy, which promotes sustainable development at the economic, technological, cultural, social and health levels.

NOVA comprises 9 Schools across the Great Lisbon Area: 6 Faculties (NOVA School of Science & Technology - NOVA FCT; NOVA School of Social Sciences and Humanities – NOVA FCSH; NOVA School of Business and Economics – NOVA SBE; NOVA Medical School - NMS; NOVA School of Law - NSL; NOVA Information Management School – NOVA IMS), 2 Institutes (Institute of Hygiene and Tropical Medicine - IHMT; Chemical and Biological Technology Institute – ITQB) and the NOVA National School of Public Health – ENSP. It offers several degrees (BSc, MSc, PhD) and postgraduate courses. There are over 25.000 students at NOVA, and 2.771 academics & researchers of which nearly half are women.

Research at NOVA is thriving qualitatively and quantitatively, hosting 39 R&D Units, 92% of which are classified as Excellence or Very Good by international panels, positioning NOVA among the top 3 national universities with international acclaim. Twenty-three of these R&D Units are partnerships with other national institutions. Interdisciplinary research is also part of NOVA's strategy, reflected in its 5 interdisciplinary platforms and the recent launch of NOVA Interdisciplinary Research Communities. R&D revenues grew by 60% from 2018 to 2022, totalling over 56.5M€.

Published research demonstrates a significant impact, with the normalized impact of Scopus publications in 2021 surpassing the world average by 26%. In 2022, NOVA published 3411 indexed publications (in *Scopus* and *Web of Science*), 49.7% involving international collaboration, and 12.9% ranking within the top 10% of the most cited globally. NOVA stands out globally for its proportion of publications by female authors (34th worldwide).

Inclusiveness, non-discrimination and equality are central to NOVA's Strategic Plan 2020-2030 (SP) and the Gender Equality Plan, aligned with the Sustainable Development Goals (SDGs) of the UN 2030 Agenda. Particularly, NOVA develops initiatives & missions with positive impact on society in the areas of Health & Well-being (SDG3), Equal Rights & Opportunities (SDG5), Renewable & Affordable Energy (SDG7), Industry, Innovation & Infrastructures (SDG9), Inequality Reduction (SDG10), Promotion of Sustainable Cities & Communities (SDG11), Climate Change (SDG13), Life Below Water (SDG14), among others.

NOVA actively contributes to 10 Associated Laboratories (LAs), funded with 11.5M€ in 2022, and leads coordination in 3, hence with a prominent role in shaping national policies to address societal challenges, fostering researchers' careers, attracting talent, and conducting interdisciplinary research of excellence. NOVA is also actively involved in 15 Research Infrastructures (RI), coordinating 5 of them. Eighty percent of these RI are

integrated into international networks, including 5 as part of the European Strategic Forum for Research Infrastructure roadmap and 7 as members of the European Research Infrastructure Consortium.

In terms of funding, as happened in the H2020 program, NOVA stands out as the leading Portuguese University in securing Horizon Europe (HE) Research Funding (per capita): 68.80M€ across 119 projects until December 2023, including 37 (almost 1/3) as project coordinator. NOVA's researchers have been awarded 34 grants totalling 42.8M€ since the launch of the European Research Council (ERC) Grants programme, consolidating NOVA's position as the Portuguese university with the best ratio of ERC grantees per total number of R&D personnel. NOVA proudly stands as the first Portuguese university to receive an ERC Synergy grant in Humanities and an ERC Starting grant in Economics, underscoring its outstanding achievements, and reinforcing the importance of its strategic pillars. In 2022 alone, NOVA won 168 R&D projects, with a combined total value of 75M€, and had more than 500+ ongoing R&D projects, representing a financial envelope of 180M€. Notably, in 2023 the European Commission (EC) and the Portuguese Government granted 33M€ to establish the NOVA Institute for Medical Systems Biology (NIMSB), a pioneering centre of excellence focused on applying emerging biomedical and digital technologies in healthcare.

The participation in 19 Projects from the Business Innovation (C5) component of the Portuguese Recovery & Resilience Plan (32.8M€), as well as in 12 Collaborative Laboratories (CoLabs) reflects NOVA's commitment to promoting knowledge-based, high-impact value creation activities through collaborations with society and industry. This is emphasized by the NOVA Technology Transfer and Impact offices that provide specialized support for knowledge transfer & valorisation (KTV), entrepreneurship training, and partnership opportunities for impact-driven projects and initiatives. NOVA's technologies, specialized services & entrepreneurship initiatives are showcased in the NOVA Innovation portal ([novainnovation.unl.pt](http://novainnovation.unl.pt)), enabling the NOVA community & external partners to access information on activities related to the University's third mission. As of 2023, NOVA boasts +270 active patents, +125 start-ups & spin-offs, +600 active protocols & agreements with companies and non-academic institutions and has provided entrepreneurship training to over 20.000 students since 2015. In 2022 NOVA was recognized as the Young Entrepreneurial University of the Year by the Accreditation for Entrepreneurial and Engaged Universities, and as the Portuguese University with the most entrepreneurial students/alumni by Startup Portugal, accounting for a total of 268 startup founders.

NOVA's research performance has been recognized by prominent international rankings, leading to its inclusion in esteemed networks such as the Young European Research Universities Network (YERUN) and the EUTOPIA European University Alliance. As part of EUTOPIA, NOVA joins a connected & inclusive community of universities sharing common values & agendas. Through collaborative research, challenge-based learning, enhanced mobility opportunities, and shared innovation, EUTOPIA aims to address local & global challenges, contributing to a new model for higher education in Europe. EUTOPIA provides ample opportunities for all staff at NOVA, fostering a dynamic and enriching environment.

In summary, NOVA is a dynamic institution committed to excellence in education, research, and societal impact, with a strong focus on inclusiveness, interdisciplinary collaboration and global engagement.

### **Strategy to stabilizing careers and attracting and retaining talent of the Hiring Institution**

Reforms in research careers and research assessment are key priorities at NOVA. As an early signatory to the Agreement on Reforming Research Assessment, a member of the Coalition for Advancing Research Assessment (CoARA), and the SECURE (Sustainable Careers for Research Empowerment) project, NOVA is fully committed to improving research careers and mitigating precarity. Establishing a stable workforce with transparent policies for career entry, advancement, and fair promotions is crucial for attracting & retaining talent. Therefore, it is a priority to decrease the percentage of researchers with precarious contracts, decrease the average age when entering Teaching or Research (T&R) careers, increase career opportunities for young researchers, and implement transparent & fair systems for promotion & recognition of merit. These priorities are aligned with the recent recommendations of the EC and the guidelines of the European Charter & Code for Researchers (ECCR).

To date, NOVA employs 509 individuals holding Ph.D. under full-time fixed-term contracts, categorized into Teaching (40) and Research (469), in addition to 40 individuals with post-doctoral fellowships, all together regarded as precarious contracts. Additionally, NOVA comprises 883 Professors (tenure/tenure-track) and 67 Researchers with full-time permanent contracts. This indicates that 35% of all Ph.D. holders exclusively dedicated to T&R at NOVA are employed under fixed-term contracts, not very distant from what the European Framework foresees as the maximum (1/3). However, there is a significant discrepancy between Research and Teaching careers.

The average age of an Assistant Professor at NOVA at the beginning of the contract is 39,9 years old, while for an Assistant Researcher, it is 42,3. Renewing staff and decreasing the average age at the entrance of each T&R category is therefore a crucial part of NOVA's Hiring Plan (hereafter referred to as HP). The University aims to have at least 40% of full-time researchers with permanent contracts by 2028 and above 65% by 2035, along with reducing the average age of permanent researchers by at least 10% by 2035. Given the good indicators for the teaching career, we do not anticipate changes in the % of full-time Professors under permanent contracts, but we do aim to decrease the average age at the entry of each Teaching category by 10% by 2035.

To attain these objectives, NOVA has recently introduced and will continue to implement innovative HR policies aligned with the CoARA principles. These include advocating for merit-based advancements and awards, alongside holistic evaluation systems for each T&R career level, monitored through its established Quality Assurance System. The system has two main governing bodies: the Vice-Rector for Research and Innovation and the Strategic Research Council (CEI), which gathers representatives of the Direction of all Organic Units (OU), which, in turn, coordinate research activities developed at the R&D Units level.

Particularly, NOVA has recently revised both **Reg. for the Evaluation of Researchers' Performance** (6757/2023) and the **Reg. for Additional Incentives for Researchers**, to align with leading international standards and CoARA. NOVA's policy seeks to accommodate various research profiles and acknowledge the diverse outputs, practices & activities that enhance the quality & impact of research. Now, the triennial performance assessment for T&R staff comprises teaching, R&I, impact and knowledge valorisation, administrative tasks & community engagement, with qualitative and quantitative indicators informing the evaluation process. NOVA's **Reg. for the Provision of Teaching Service** (8178/2021) allows Professors to assume a predominantly Research profile (comprising R&D&I activities, academic administration, and management), with a Teaching load ranging between 2-4.5 hours per week/semester, in line with the eligibility criteria of *FCT Tenure*. The forthcoming **Reg. for Additional Incentives** will recognize exceptional research merit through additional remuneration, strengthening talent retention and attraction at NOVA, while the **Pedagogical Innovation Prize** (Reg.129/2021) aims to spotlight innovative teaching practices significantly impacting courses across diverse scientific fields. Furthermore, NOVA has implemented a new **Reg. for Individual Research Fellowships** (9484/2023) seeking to improve stipends compared to the national standards to attract outstanding young researchers. Upcoming initiatives for 2024 include the development of new **Regs. for Research careers** and **Science Management careers**, in line with ERA Action 17. Today, research support structures are an indispensable asset for attracting and retaining researchers, contributing to enhancing research impact, and NOVA also aims to strengthen its science management teams. The creation of a **Career Development Support Unit**, the development of a **strategic plan for attracting talent**, and the establishment of **flagship international Ph.D. programs** in strategic areas, modelled after some current programs funded by FCT are also envisioned. The application for the HR Excellence in Research Award via the HRS4R assessment process will start in 2024 and will be instrumental in fostering attractiveness to researchers.

Our T&R community has access to a wide range of infrastructures, facilities, and equipment through NOVA's R&D Units. Our commitment to offering state-of-the-art facilities and resources is fundamental to attract and retain talent but also to foster a culture of excellence and creativity. By equipping our academic community with the tools and support they need, we aim to facilitate groundbreaking discoveries and the development of solutions to complex challenges. Our R&D units serve as the backbone of this endeavor, offering a collaborative and dynamic setting where interdisciplinary collaboration flourishes.

#### FCT Tenure program

Identifying areas at risk of losing critical mass due to the conclusion of fixed-term contracts & retirements, as well as pinpointing emerging research domains, was crucial in shaping the HP. For the *FCT Tenure* program, NOVA will propose a total of 263 profiles (122 Teaching/141 Research), in research areas of strategic importance to its R&D ecosystem, fully aligned with the needs of the different Schools and R&D Units. Notably, by securing 141 Research profiles, NOVA will increase by 300% the total number of PhD holders with a full-time permanent contract as a researcher. Moreover, the anticipated loss of critical mass due to projected retirements, which could exceed 166 Professors until 2028 (2024: 47; 2025: 28; 2026: 25; 2027: 30; 2028: 36), and 7 Researchers (2025: 2; 2026: 1; 2027: 3; 2028: 1) needs to be urgently addressed. The FCT-Tenure program will allow to anticipate the hiring of staff to replace those to be retired ensuring a smooth transition and strengthening the alignment of teaching with research strategies. Many current precarious researchers possess suitable profiles and experience to qualify for positions in areas expected to see retirements, so the renewal of teaching staff will also contribute to improving the number of Professors with research profiles, strengthening the links between T&R. Teaching linked to research, and emphasizing scientific excellence is crucial to adapting to new paradigms and unique offerings, where the teaching-researcher profile is highly valuable.

The candidates to be recruited will contribute not only to reinforcing areas of excellence but also to consolidating or set up new strategic and emerging interdisciplinary areas in the different NOVA Schools, contributing to building new bridges and synergies between the different Schools. The strategic hiring plan will significantly bolster our dominance in the realm of **flagship areas** that include **Social Sciences and Humanities** (spanning from Management/Economics, History, Philosophy, Arts, Linguistics or Communication); **Health and Life Sciences** (including but not limited to Public and Global Health, Cancer Research, Biomedical Sciences, Nutrition, Metabolism, Neurologic Disorders or Health Promotion) or **Engineering & Technology** (Energy, Industry 4.0, Materials Sciences, Digital Technology, Mathematics, Electronics or Nanotechnology). Scientific areas like Macroeconomics, Law and the Blue/Green Economy, Vector-borne diseases or Molecular epidemiology will be consolidated through the reinforcement of dedicated T&R staff. The investment in emerging areas such as Data Science and AI applied to Health, Environmental and Sustainability research, or Precision Medicine is also noteworthy, underscoring our commitment to the development of interdisciplinary research.

The involvement of R&D Units/LAs will be pivotal in effectively contributing to research excellence, as all profiles will be integrated into R&D Units or LAs, benefiting from access to additional funding and support structures very important for their career development and progression.

By exploiting the University's wide-ranging partnerships with non-academic (NA) entities, 2 NA Chairs will strengthen NOVA's permanent staff, reinforcing the collaboration with external partners. NOVA HR guidelines are universally defined but Schools will establish their recruitment calls, taking into consideration the ECCR principles. All host entities will conduct transparent & rigorous selection processes, seeking individuals with exceptional talent & scientific impact potential. Internal governance procedures will ensure proper implementation of the HP, facilitated by close interaction between the CEI and the School's directive boards and pedagogical/scientific councils.

Importantly, effective knowledge transfer, valorisation (KTV) & outreach strategies are pivotal in amplifying the impact of the proposed T&R positions, ensuring that insights and innovations reach broader audiences and contribute to societal advancement. KTV serves as a vital link between academia & society, fostering innovation and development. The coordination of KTV and entrepreneurship support is centralized within a network that encompasses the Rectorate and 3 offices (IRIS-FCT, InnoValue NMS & ITQB Innovation Unit), ensuring proximity to the T&R community for optimal impact. NOVA fosters an entrepreneurial culture and facilitates the establishment of spin-off companies (Reg.157/2018) rooted in research discoveries & academic expertise. This initiative encourages the protection and valorisation of IP rights to enhance competitiveness, as outlined in **NOVA Intellectual Property Regulation** (1104/2020). **NOVA's outreach strategy** actively engages society & stakeholders through various channels, in local & national R&I networks. The **NOVA Impact Unit** connects NOVA with businesses & social sectors, CoLabs and Acceleration parks, fostering



KTV & social innovation, and facilitating joint research projects. NOVA also collaborates with the municipalities where it is located, contributing to community development and citizen-science initiatives. Public events available to all T&R staff as the **NOVA Science & Innovation Day** and the annual magazine, **NOVA Science**, showcase R&I to the broader community. Additional support schemes and initiatives are detailed in section 1.5.

With its HP, NOVA will prioritize the rejuvenation of its T&R staff while fostering teaching, research, and internationalization efforts. It emphasizes smart specialization in areas of distinction and conducts specialized, impact-driven, interdisciplinary research with global recognition, aligned with European & global agendas, significantly contributing to the nation's social & economic advancement. The efficient execution of this HP will allow NOVA to accomplish its Research agenda for the next decade, aiming to achieve at least a **10% increase in research activity**, and a minimum **20% growth in interdisciplinary research** focused on societal challenges, besides several other qualitative indicators.

### Hosting Conditions of the Hiring Institution

Aligned with European guidelines, NOVA presently offers a comprehensive set of benefits & resources, with ongoing plans for enhancement, aimed at fostering better conditions for new hires and retaining existing talent, making it more appealing as a workplace. It includes a **regular evaluation process & career progression**; a **competitive salary package** (with **health benefits**) defined by national law and internal Regs for T&R careers, reflecting the profile's qualifications & experience as fair compensation for scientific excellence; and a **research funding package** to support the research work at NOVA (consumables, equipment, travel, publications, etc). NOVA also boasts **state-of-the-art infrastructures** recognized in the National European Roadmaps, supported by increased investment and managed by highly qualified staff, offering researchers exceptional resources and facilities to assist groundbreaking discoveries and foster innovation. This approach underscores our belief that access to high-quality research infrastructures, databases and equipment is critical to stimulating scientific inquiry and progress.

NOVA also promotes **incentive policies and merit recognition initiatives** to T&R staff, as described in the previous section. Furthermore, the **Reg. for the Provision of Teaching Service** (8178/2021) enables Professors at NOVA to adopt a research-oriented profile, resulting in a reduced teaching load conducive to R&D&I activities. This approach also benefits NOVA by integrating cutting-edge research in specific fields into corresponding teaching modules, hence providing the students with access to advanced knowledge to impact society positively.

Moreover, the T&R staff has both centralised (Rectorate) and decentralised (each School) **support structures**. The Rectorate has an R&I Support Directorate (DAII) responsible for promoting transversal activities, in close articulation with the units of each School. Support structures and activities at NOVA are professionalized and have highly experienced research management support in the areas of:

- a. Funding, impact & project management – each School provides support to the T&R staff in securing competitive funding, creating impact with their research, and ensuring efficient implementation through optimised financial & administrative management of projects.
- b. Infrastructure management – Schools provide the tools & support needed, aiming to facilitate groundbreaking discoveries and the development of innovative solutions (CryoEM, Microscope & Animal Facilities, Mass spectrometry and NMR, Social Science Datalab; CHAIN Biobank).
- c. Innovation, Knowledge Transfer and Entrepreneurship – the Rectorate, through NOVA Impact, in articulation with specialized units in the different Schools provide a comprehensive set of activities throughout the innovation and knowledge valorisation value chain, including the protection and commercialization of research results; entrepreneurship training for the academic community; support to the creation of new spin-off companies, and liaison with industry or other societal organizations;
- d. Science communication (SC) & outreach (NOVA FCSH has a master course on SC; ITQB develops numerous outreach activities/science fairs);
- e. Scientific information management (PURE platform & NOVA Research Portal).
- f. HR recruitment & career management.
- g. Community services, internationalization & mobility opportunities.

NOVA also has Teaching & Mentorship support offices to leverage teaching activities, including access to pedagogical training, advanced teaching technologies & mentoring programs (NOVAFORMA, Talent@NOVA, NOVA doctoral School, etc).

In addition, NOVA provides **transversal initiatives** to both T&R as:

- Systematic training in the **new European impact metrics**, in line with NOVA's participation in the SECURE and OPUS projects - recent examples: the Research Impact Narratives Challenge and a webinar about Narrative CVs (>350 participants).
- ERC grant applications support (1:1 coaching/bootcamps).
- Preparation for European projects (Fit4Funding® program developed at NOVA).
- Entrepreneurship & Knowledge Valorisation activities (initiatives available at novainnovation.unl.pt) - T&R staff can engage as participants or mentors in entrepreneurship and innovation programmes.

Within NOVA's R&D ecosystem, a dynamic **interdisciplinary research environment** thrives. Events held throughout the year facilitate institutional networking and potentiate partnerships; e.g. **NOVA Science & Innovation Day 2023** showcased research work and innovations in all research areas, engaging 300+ participants. This annual event boosts scientific visibility while fostering cross-cutting collaboration, aligned with the 2030 Agenda. NOVA also offers T&R staff engagement opportunities through **5 Interdisciplinary Platforms** and the recent **NIRC on Sustainable Energy Systems**, in partnership with Galp, fostering synergies among researchers from diverse Schools and backgrounds. Within this framework, T&R staff will have the opportunity to cultivate collaborative projects and seek support through **seed-funding programs** for innovative & PoC ideas. Underway is the creation of an additional NIRC focused on addressing challenges related to the Oceans.

Furthermore, as part of the **YERUN and EUTOPIA alliances**, NOVA engages in beneficial activities for T&R staff, including doctoral cotutelle studies, the Young Leaders Academy for networking & leadership development for young T&R, and the Research Connected Communities model for interdisciplinary projects addressing global challenges.

NOVA's initiatives to improve work-life & gender balance, inclusiveness, and parenthood conditions in T&R careers reflect the University's dedication to creating an atmosphere that values diversity and promotes equal opportunities. Some of the current initiatives include:

- The establishment of the **Office of Gender Equality & Inclusion**, and the creation of the **NOVA's Denunciations Portal**.

- Implementation of **transparent, supportive & internationally comparable recruitment procedures**, tailored to the type of positions advertised.
- Promotion of **inclusive hiring practices** to foster gender balance, inclusiveness & equity in all Schools and R&D Units/LAs.
- **Introduction of gender equity**, including mentorship initiatives and efforts to address the gender pay gap.
- Implementation of a **transparent evaluation system** aligned with CoARA principles.

Concerning **work-life balance**, NOVA provides flexible work arrangements to accommodate the needs of its T&R staff. To ensure the **balance between T&R duties** for new researchers hired in teaching careers, the Pedagogical/Scientific Councils of the Schools will proactively implement measures to achieve optimal equilibrium between T&R responsibilities. Annual teaching allocations, to both T&R profiles will be ensured by the adherence to legal teaching workload limits for researchers, but also professors with a research profile (Reg. 8176/2021). Some Schools already have internal hiring procedures for teaching positions which include reduced teaching loads with no management or administrative duties, ensuring focus on research. If individuals find the balance between their T&R duties inappropriate, they will be encouraged to report their concerns through the internal governance structures of their Schools or via the NOVA's Denunciations Portal.

NOVA has recently consolidated its **family-friendly policies** for all staff, such as parental leave support, on-site childcare facilities in the Caparica campus, resources for new parents to facilitate a smoother transition back to work, and ateliers organized with children's activities open to the entire NOVA Community during school holidays. NOVA also offers its staff **counselling** services and well-being workshops, **sports and leisure activities**, as well as supports a set of initiatives that contribute to its cultural richness and promote human development through **volunteer** experiences to enhance social and community awareness (SASNOVA).

Aligned with European recommendations, NOVA will soon expand its initiatives by establishing a centralized **Career Development Support Unit**, to nurture personal & professional growth of our T&R staff. It will offer resources designed to help them align their interests with professional opportunities, both within academic & NA realms – i.e. comprehensive mentorship & training programs encompassing both scientifically based & soft-skills oriented approaches, as well as pathways for intersectoral mobility; opportunities to facilitate international experiences & collaborations, enhancing T&R staff's career prospects, visibility & competitiveness for funding or awards.

In addition, each T&R position will also enjoy specific conditions from the Schools or R&D Units/LAs, as delineated in the requested profiles. The role of the various host entities within NOVA's ecosystem aligns with the University's research strategy and is crucial for the success of the HP. NOVA has considered the needs of the R&D Units/LAs in the design of its HP, both in terms of renewing T&R staff to strengthen key research areas as well as fostering planned growth in new research areas. As so, this involves the cofinancing & sharing responsibilities to recruit PhD holders in T&R careers within the FCT Tenure program, as ALL T&R hired members will be integrated within the R&D Units/LAs at NOVA. The strategic alignment with R&D Units is instrumental as they provide additional funds for research, access to specialized equipment, infrastructures and national and international research networks crucial for the development of researchers' careers.

Overall, the distinctive hosting conditions within NOVA and its R&D ecosystem play a crucial role in providing optimal conditions for new hires and retaining existing talent, rendering it highly attractive as a workplace.

#### Additional Host Institutions

### Universidade Nova de Lisboa - Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa

#### Profile of the research staff of the Host Institution

	Description	Number
<b>A</b>	Total number of integrated PhD holders, with a fulltime permanent contract as a researcher (ECIC or equivalent), associated with the Institution on 30/11/2023	16
<b>B</b>	Total number of integrated PhD holders, with a fulltime permanent contract as a professor (ECDU, ECPDESP or equivalent), associated with the Institution on 30/11/2023	420
<b>C</b>	Total number of PhD holders, with non-permanent fulltime research contracts ("Norma Transitória", non-permanent "FCT-CEEC", "Bolsas inv. pós-doutoral", etc.) associated with the Institution on 30/11/2023	114

#### Description of the Additional Host Institution

The NOVA School of Science and Technology (NOVA FCT) is acclaimed as one of the top three institutions in Portugal, specializing in Engineering and Sciences. Renowned for its research excellence, superior course quality, and the impressive employability of its graduates, including bachelor's, master's, and Ph.D. holders, NOVA FCT is home to a vibrant community of around 8.500 students. Its exceptional campus fosters a culture of outstanding teacher-student relationships and offers a dynamic academic life enriched with a variety of cultural and sports activities.

All programs at NOVA FCT, particularly engineering courses, are accredited by the A3ES (Agency for Assessment and Accreditation of Higher Education) and recognized by prestigious bodies such as the Order of Engineers, FEANI (Federation of Professional Engineers in Europe), and EUR-ACE (European Accredited Engineer). The institution boasts 13 Departments in diverse fields like Chemistry, Environment, Materials, Engineering, and Informatics, and operates 16 R&D Units. It offers a wide range of study cycles, totaling 117 (19 Bachelor's, 11 Integrated Master's, 49 Master's, and 32 PhDs).

NOVA FCT's commitment to scientific excellence is evident in its significant scientific output and numerous publications in prestigious international journals, achieving a SciVal Citation Impact index of 1.35, which is 35% above the global average. Its active engagement in leading technological



university networks such as CESAER and partnerships with esteemed institutions like MIT, CMU, and the University of Texas highlight its global presence and dedication to excellence.

The school's strategic emphasis on sustainable development closely aligns nearly all recruitment plan vacancies with the Sustainable Development Goals (SDGs), reflecting a proactive stance towards contemporary societal challenges. This focus extends to the organization of research and teaching, prioritizing areas such as Sustainability, Energy, IoT, Industry 4.0, Life Sciences, Health Sciences and Technology, and Digital Technology, among others. This ensures integration with the broader ecosystem, including departments, educational offerings, R&D Units, and strategic areas.

Our recruitment plan aims to hire 53 assistant professors, 1 associate professor, 22 assistant researchers, and 5 principal researchers to bolster the link between teaching, research, and innovation. We seek teaching researchers who are not only adept at pedagogical innovation but also embody an innovative and entrepreneurial spirit to empower future generations.

Collaboration and knowledge transfer are cornerstones of NOVA FCT's mission, underscored by its participation in 9 COLABs and securing 17 ERC grants, showcasing its role in fostering innovation. Initiatives like the Proof of Concept at ERC grants aim to translate research into societal benefits and enhance the maturity of technologies developed in the university setting.

The recruitment strategy, supported by the new regulation for teaching services at NOVA University of Lisbon, is tailored to attract teaching researchers with minimal teaching loads, enabling a focus on research activities. This approach ensures the necessary resources and support for the successful execution of tasks outlined in each vacancy, committing NOVA FCT to an environment that encourages innovation and excellence.

In conclusion, NOVA FCT's strategic initiatives, spanning structured departments, educational offerings, R&D Units, and strategic areas, are thoughtfully designed to foster knowledge and innovation. These efforts, aimed at attracting and nurturing the next generation of scholars and innovators, solidify its position as a leader in science and technology education and research. Through its contributions to education, research, and collaboration initiatives, NOVA FCT makes a significant impact on society and advances the sustainable development goals.

#### Additional Host Institutions

### Centro Interuniversitário de História das Ciências e da Tecnologia

#### Profile of the research staff of the Host Institution

	Description	Number
<b>A</b>	Total number of integrated PhD holders, with a fulltime permanent contract as a researcher (ECIC or equivalent), associated with the Institution on 30/11/2023	48
<b>B</b>	Total number of integrated PhD holders, with a fulltime permanent contract as a professor (ECDU, ECPDESP or equivalent), associated with the Institution on 30/11/2023	12
<b>C</b>	Total number of PhD holders, with non-permanent fulltime research contracts (“Norma Transitória”, non-permanent “FCT-CEEC”, “Bolsas inv. pós-doutoral”, etc.) associated with the Institution on 30/11/2023	22

#### Description of the Additional Host Institution

The Interuniversity Centre for History of Science and Technology (CIUHCT) stands as the leading research center for the History of Science, Technology, and Medicine in Portugal. Achieving an excellent classification in 2019, it provides the most conducive academic environment for research development in the history and material culture of Science, Technology, and Medicine (STM) in Europe.

CIUHCT's mission is to act as a hub for high quality research in STM, to contribute to its establishment as a solid scientific field in Portugal, fully integrated in the international community, encompassing a strong dimension in training and outreach.

The main objectives of the research unit are: 1) to inscribe STM in Portuguese and European history, by unveiling the importance of STM in the construction of the European space; 2) to increase the presence of Portuguese studies in the international map of the history and material culture of STM; and to foster a multidisciplinary HSTM approach, by bringing together scholars of different branches of the social sciences and humanities.

Moreover, it aims at asserting the relevance of History of STM in building citizenship and European identity, focusing specifically, but not exclusively, in STM historical case studies on Portugal in an international perspective. CIUHCT participates actively in international debates on the concepts of centre(s) and periphery(ies), on the relevance of STM knowledge in the construction of modern and contemporary societies, using an innovative methodological framework centred on the trilogy circulation, appropriation and innovation. CIUHCT has also developed relevant research regarding the role early modern knowledge made in Iberia played just before the ‘Scientific Revolution’. Moreover, CIUHCT triggered novel research on Anthropocene Studies, highlighting issues of both bad and good Anthropocene in order to participate in debate and contribute for more sustainable practices.

CIUHCT is an interuniversity center hosted by two institutions: Ciências-ULisboa and FCT-NOVA, and their respective management institutions are FCIências.ID and NOVA.ID. It gathers 70 researchers, including 41 integrated researchers and 24 PhD students, which are distributed by the two faculties.

The coordinator of the CIUHCT, the host institution and the participating institution alternate at each FCT.IP funding cycle. The allocation of funding between the two hosting institutions is made whenever there is a transfer of funds from the Portuguese Foundation for Science and Technology to

the managing entity, with each hosting institution receiving funds corresponding to the number of its integrated researchers. The coordinator is associated with the host institution, while the co-coordinator is associated with the other institution, the participating institution. For day-to-day management support, CIUHCT operates two secretariats located at FCIências.ID and NOVA.ID.FCT.

The Coordination holds the responsibility of representing CIUHCT, overseeing both scientific and administrative management, chairing meetings of the Executive Committee and the Scientific Council, and preparing the annual report for submission to the Portuguese Foundation for Science and Technology. Additionally, CIUHCT undergoes monitoring by CEPAC (Permanent External Scientific Advisory Board) and may engage additional consultants for specific recommendations.

The team actively participates in crucial international debates within its scientific domain. Its members are deeply engaged in national and international research networks, namely with the Max Planck Institute for the History of Science; the Max Planck Institute for Geoanthropology; and the Society for the History of Technology (SHOT) and the European Society for the History of Science (ESHS), having held top positions in these societies, among many others.

Since 2020, CIUHCT benefited from extra funding as it held two ERC grants (ERC-STG MEDEA, 2017-2023, and ERC-Cog Rutter, 2019-2024) and obtained funding for seven FCT projects: Aqua (2018-2022); E3Global (2021-2024); Herit-Ages (2022-2023); Hibic-LAB (2022-2023); CIRC.LE (2022-2024); PROWORK (2023-2025); and MOPRA (2022-2025).

CIUHCT has spearheaded several projects involving the entire team and the scientific community dedicated to the history of science and technology in its broadest sense. It has delivered flagship initiatives from the previous strategic project, including the creation of four edited volumes on HSTM in Portugal, published in 2022; the online Dictionary of Biographies of Portuguese STM actors, encompassing scientists, engineers, and physicians, with 300 published entries, each with a DOI provided; the bibliographical guide to HSTM in Portugal, continuously updated with additional entries, similar to the Dictionary; and the open-access e-journal HoST, indexed in Scopus in 2023. Moreover, multiple databases made by CIUHCT members are important tools for science and society.