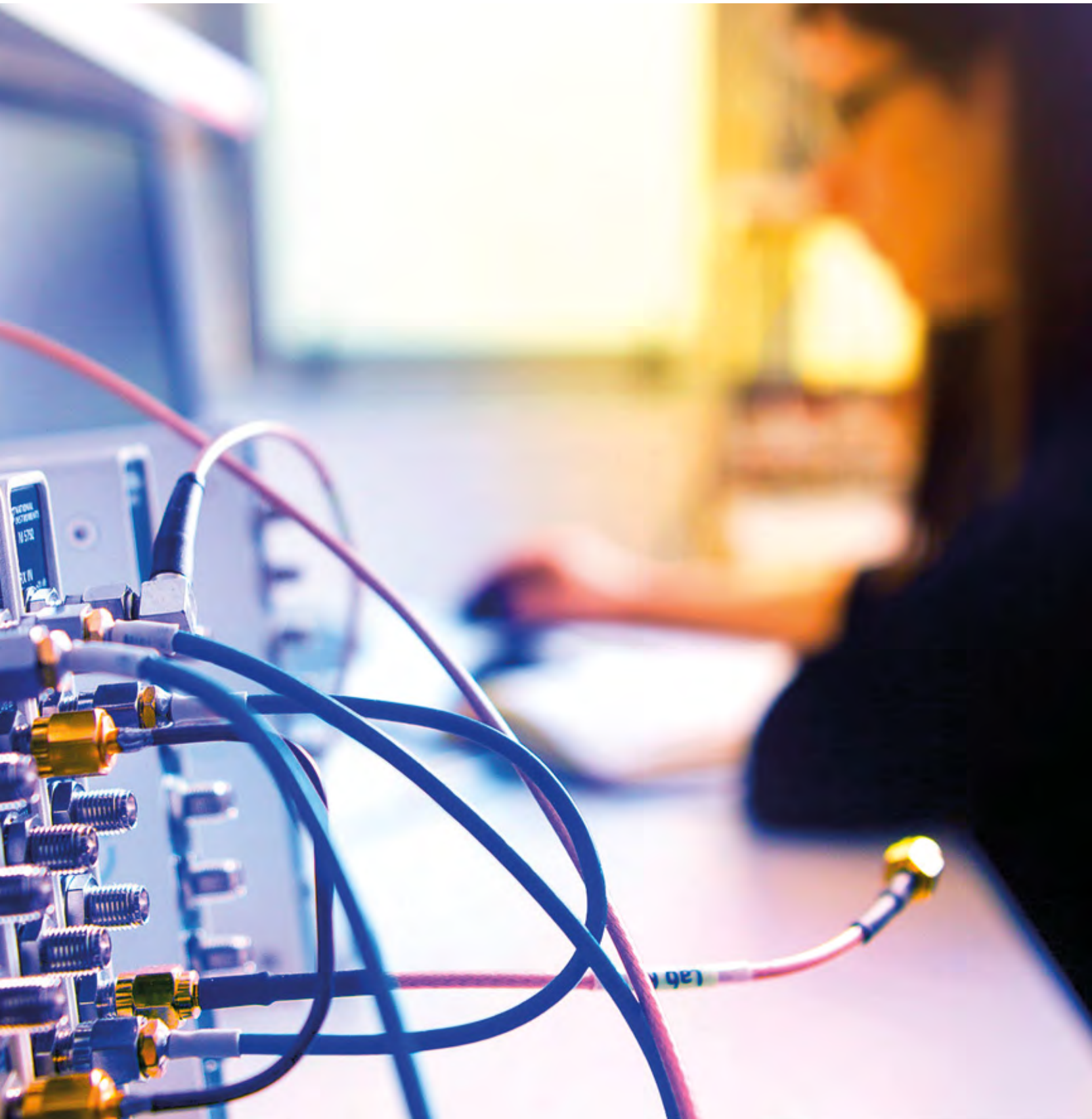


Interdisciplinary research centres and facilities



The University of Aveiro (UA) is a highly regarded institution of research led education, constituted by departments, research centres, polytechnic schools, interface units and a vocational education network. Its integrated structure permits the articulation and harmonization of the teaching and research environments, as well as the association with innovative science outreach activities.

Excellence in research is one of the hallmarks of the University, where the pursuit of diverse scientific topics of an interdisciplinary nature promotes a closer integration and collaboration of the different disciplines and scientific areas, such as Engineering, the Natural Sciences, the Arts and Humanities, Business and Economics, Life Sciences and Medicine, among others.

Dealing with pioneering emerging research areas of global and societal relevance enhances the need of a truly integrated interdisciplinary research-oriented strategy, not only at local, but also at national level. To this matter, FCT organises regular reviews of national R&D institutions, following the most rigorous international standards, with the final aim of gauging the quality of the activity conducted in the Portuguese research bodies.

Results from the strategic review of national R&D Units launched by FCT in 2013 were revealed in 2014, with very positive results to the University of Aveiro. This review was based on periodic assessments by an international panel of experts, based on the R&D institutions' activity reports and proposed strategic plans as well as on direct contacts with researchers and institutions, through site visits and/or interviews by the reviewers.

Within the review, all R&D institutions had to rethink strategies and elaborate on future actions and trends in the respective research area or field. This action led to some changes in the research universe at UA and, eventually, to the creation of iBiMED and RISCO, two new research centres at the campus, in the field of biomedicine and civil engineering, respectively.

iBiMED, the Aveiro Institute for Research in Biomedicine, is organized as a multidisciplinary research team, involving biologists, biochemists, chemists, physicists, mathematicians and clinicians and is fully equipped to carry out research in biomedical sciences. It is housed in the new building of the Health Sciences Department and has modern and sophisticated research laboratories, including state of the art Genomics, Proteomics, Metabolomics, confocal microscopy, computing, NMR and animal cell culture facilities. A new biobank and animal house will become fully available in the Summer 2015. iBiMED is organized for tackling biomedical questions from basic computational and molecular levels to clinical studies and to translate knowledge into clinical application.

RISCO, the Aveiro research centre of Risks and Sustainability in CONstruction aims at gathering researchers whose scientific and technological work is focused on subjects related to the study and evaluation of risks and sustainability in construction, including built heritage conservation and restoration. Centred in the Civil Engineering domain, it can also comprise researchers from frontier areas such as mechanical, materials or environmental engineering as well as architecture, promoting again interdisciplinarity to achieve excellence of scientific production and technology transfer, in the fields of Risks in the Built Environment; Construction Sustainability and Built Heritage Conservation and Restoration.

High-level researchers, postdoc and PhD students, from a wide range of disciplines and scientific areas, populate our campus. The existence of 19 research centres, from which 7 are poles, sharing infrastructures and know-how at the campus and country, fortifies this vision and confirms the interdisciplinary and collaborative strategy. This reality of such a multidisciplinary research empowers academic, public and private sector organizations together in a mutually beneficial collaborative environment.

RESEARCH CENTRES AT THE CAMPUS:

CESAM – Centre for Environmental and Marine Studies

Research areas: Atmospheric Processes and Modelling, Environment Processes and Pollutants, Functional Biodiversity, Ecotoxicology, Stress Biology, Adaptation Biology and Ecological Processes, Marine and Estuarine Ecology, Oceanography and Marine Geology, Coastal Zone Planning and Management

Unit coordinator: Casimiro Pio

<http://www.cesam.ua.pt/>

CIC.DIGITAL – Center for Research in Communication, Information and Digital Culture

Research areas: Media and Technology, Society, Culture and Arts, Information and Communication

Pole coordinator: Lídia Silva

<http://www.cicdigital.org/>

CICECO – Aveiro Institute of Materials

Research areas: Inorganic Functional Nanomaterials and Organic-Inorganic Hybrids, Multifunctional Ferrous Ceramics and Nanostructures, Materials for Energy and Functional Surfaces, Biorefineries, Biobased Materials and Recycling and Biomedical and Biomimetic Materials

Unit coordinator: João Rocha

<http://www.ciceco.ua.pt/>

CIDMA – Center for Research and Development in Mathematics and Applications

Research areas: Algebra and Geometry, Complex and Hypercomplex Analysis, Functional Analysis and Applications, Gravitational Geometry and Dynamics, History of Mathematics, Optimization, Graph Theory and Combinatorics, Probability and Statistics, and Systems and Control

Unit coordinator: Luís Castro

<http://cidma.mat.ua.pt/ma/home.php>

CIDTFF – Research Centre for Didactics and Technology in Teacher Education

Research areas: Education, Didactics, Supervision, Evaluation, Society and Training

Unit coordinator: Nilza Costa

<https://www.ua.pt/cidtff/>

CLLC – Centre for Languages, Literatures and Cultures

Research areas: Literary and Cultural Studies (Poetics of Mobility in Literature and Culture; Cultural Flows and Literary Mediations); Language Sciences (Linguistic Variation; Translation and Terminology)

Unit coordinator: Otilia Martins

<https://www.ua.pt/cllc/>

CINTESIS – Center for Health technology and Services Research

Research areas: Clinical & Health Services Research, Ageing & Neurosciences Research, Diagnosis, Disease & Therapeutics Research and Data & Methods Research

Pole coordinator: Carlos Silva

<http://www.cintesis.eu/>

CIPES – Center for Research in Higher Education Policies

Research areas: Higher Education, System Level Policies, Institutional and Organisational Analysis and Resources, Performance and Human Capital

Pole coordinator: Rui Santiago

<http://www.ua.pt/cipes/>

GEOBIOTEC – GeoBioSciences, GeoTechnologies and GeoEngineering

Research areas: Lithospheric Evolution, Complex Environmental Systems, Georesources, Geotechnics and Geomaterials

Unit coordinator: Fernando Rocha

<http://www.ua.pt/geo/PageText.aspx?id=17534>

GOVCOPP – Governance, Competitiveness and Public Policies

Research areas: Public Policies, Competitiveness, Local and Regional Innovation Systems, Territory, Development and Tourism

Unit coordinator: Eduardo Castro

<http://www.ua.pt/govcopp/>

IBIMED – Institute of Biomedicine

Research areas: Human ageing, protein aggregation, epigenome, ageing related diseases, systems biomedicine, clinical studies

Unit coordinator: Manuel Santos

<http://www.ua.pt/ibimed/>

Research Institute for Design, Media and Culture [ID+]

Research areas: Design, Art, Media and Culture

Pole coordinator: Vasco Branco

<http://www.idmais.org/pt-pt/>

IEETA – Institute of Electronics and Informatics Engineering of Aveiro

Research area: Information Processing, Information Systems, Biomedical Informatics, Biomedical Technologies, Intelligent Robotics, Intelligent Systems

Unit coordinator: Armando Pinho

www.ieeta.pt/

INET-Md – Institute of Ethnomusicology - Research Centre on Music and Dance

Research areas: Ethnomusicology and Popular Music Studies, Historical and Cultural Studies in Music, Dance Studies, Creation, Theory and Music Technologies, Performance Studies and performance as Artistic Research, Education and Music in Community

Pole coordinator: Susana Sardo

<http://www.fcsh.unl.pt/inet/>

I3N – FSCOSD – Institute for Nanostructures, Nanomodelling and Nanofabrication – Physics of Semiconductors, Optoelectronics and Disordered Systems

Research areas: Modelling of materials behaviour, Nanofabrication and micro-technologies, Nano and microstructured polymer-based systems and Physical characterization of self-assembled nanostructures

Pole coordinator: Armando Neves

<http://www.i3n.org/>

IT – Telecommunications Institute

Research areas: Wireless Communications, Optical Communications, Networks and Multimedia and Basic Sciences and Enabling Technologies

Pole coordinator: José Neves

<http://www.it.pt/>

QOPNA – Organic Chemistry, Natural Products and Agro-food Stuffs

Research areas: Organic Chemistry, Natural Products, Food Science /Biochemistry and Mass Spectrometry

Unit coordinator: José Cavaleiro

<https://www.ua.pt/qopna/>

RISCO – Aveiro Research Centre of Risks and Sustainability in Construction

Research areas: Risks in the Built Environment, Construction Sustainability, Built Heritage Conservation and Restoration

Unit coordinator: Paulo Vila Real

<http://www.ua.pt/risco/>

TEMA – Centre for Mechanical Technology and Automation

Research areas: Advanced Mechanical Engineering and Fracture Mechanics, Applied Energy, Biomechanics, Nanoengineering, Transportation Technology and Simulation Software Research and Development

Unit coordinator: António Bastos

<https://www.ua.pt/tema/>