



Action Plan for the Science Academic Area 2019–2020

RESEARCH AND EDUCATION

The scientific area should:

- secure Nordita's future as an independent research institute
- encourage user activities at SciLifeLab facilities/platforms
- follow up on SU strategies for SciLifeLab
- develop the field of environmental studies at SciLifeLab further
- ensure that analytical chemistry develops a strong research and teaching environment
- stimulate broad activities in the field of circular systems in connection with analytical chemistry and the environmental and economic aspects of recycling
- strengthen neuroscience as an interdisciplinary research area at SU
- follow up on the development of the new division for computational mathematics (at the Department of Mathematics), as well as computational mathematics as a new PhD subject area
- ensure that MND will be able to conduct research and education of continued high quality
- consider the Centre for Paleogenetics (CPG) when recruiting teachers
- contribute to the development of regional, national and international research infrastructure
- stimulate research at MAX IV, ESS and SITES
- stimulate involvement at SeRC, the Swedish e-science Research Centre
- strengthen the dialogue with the Swedish Research Council's Scientific Council for Natural Sciences and Engineering Sciences
- strengthen the support for work on larger research applications
- increase the support for work on research project applications at departments and centers.
- clarify recommendations on departmental support to assistant professors and other young researchers
- support the activities of Young Facility
- encourage use of electronic lab books for experimental activities
- promote open access publication of research data
- engage in the development of a quality assurance system for research
- follow up on the work on laboratory security
- develop a course on laboratory safety procedures for heads of departments and directors of centres
- review how faculty funds are distributed according to performance
- implement/integrate the quality assurance system for education at the bachelor's, master's and doctoral levels
- review how training in supervision is provided
- develop common rules for doctoral theses, e.g. in terms of the reuse of previously published material and descriptions of the doctoral student's contribution to the work
- develop and conduct a survey of views of all doctoral students
- introduce a digital system for individual study plans in collaboration with the Academic Area for Human Science
- strengthen and clarify links between doctoral studies and the work market
- increase the recruitment of students to courses and programmes on the bachelor and master levels
- stimulate exchange studies
- strengthen contacts with specific universities abroad in order to develop attractive student exchange agreements
- lay the grounds for an effective and financially sustainable medical radiation physics programme in Stockholm and Sweden
- increase the number of students while maintaining high quality courses and programmes
- develop courses in subject areas and pedagogics for teachers in schools
- stimulate collaboration on teaching and education between departments
- monitor the development of the new VFU model to ensure that all teacher students have equal access to a well-functioning teacher placement (VFU)
- strengthen the subject-teacher training and, in the long term, educate more specialist teachers (ämneslärare) with the help of (KPU)
- improve the support for students to help them finish their courses and programmes
- improve the conditions for student involvement in decision making on student related issues
- improve the conditions for digitisation of education
- investigate the need for courses in programming, mathematics and statistics across the faculty
- take measures to strengthen links to the work market in all courses and programmes
- strengthen the work on broader student recruitment to increase diversity in the student population
- intensify the work with alumni

- strengthen the recruitment of international students
- follow up on the initiative of education web portals for international student recruitment
- develop the English-language website for international students

Recruitment and professional development

- ensure that pedagogy experts are consulted for the recruitment of teachers and for the promotion to senior lecturer and professor
- provide means to strengthen the pedagogical expertise of teachers
- offer courses in Swedish for internationally recruited teachers
- review the requirements for the docent title
- review the process and criteria for promotion from senior lecturer to professor
- promote, in consultation with the university management, and the Academic Area for Human Science, the possibility to make salary revisions when accepting docents at the faculty and when promoting teachers.
- investigate whether the time for promotion differs between genders
- encourage the affiliation of teachers to SU, as well as the affiliation of SU teachers to other institutions

COLLABORATION AND DEVELOPMENT OF SOCIETY

The scientific area should:

- increase the visibility of, and improve the information about, faculty research
- highlight already existing collaboration between the faculty and society
- develop the web-information on collaborations with society
- discuss the incentive structure for collaboration with society
- develop the collaboration between the Science Academic Area, the City of Stockholm and the Stockholm region
- secure funding for the Bergius Botanic Garden and secure a sustainable entrance for traffic to the garden
- highlight the research stations' opportunities for collaboration and interaction with society
- organise workshops on collaboration with society
- increase the visibility of sustainable development in courses and programmes
- improve the conditions for organising video conferences and e-meetings at the University
- increase the awareness and knowledge among employees and students of how to limit the climate impact of business travel and similar

ADMINISTRATIVE SUPPORT

The scientific area should:

- solve relocation and building problems for ACES, MISU and the chemistry departments
- investigate how acceptable building and laboratory standards can be secured for the A and C buildings at the Arrhenius Laboratory
- ensure that newly recruited teachers are given smooth access to the facilities/laboratories necessary for their research
- monitor the scientific area office's possibilities to continue to deliver support and service of high quality
- provide career development options for technical and administrative staff
- monitor the demand and skills supply of technical and administrative staff
- follow up the implementation of local councils at departments and centers to improve working conditions and ensure equal opportunities (RALV)
- review the support and organisation of the mechanical workshops