IN3 Call for Applications for a Group Leader in the Area of Complex Systems

The Internet Interdisciplinary Institute (IN3, http://in3.uoc.edu) is a research centre of the Universitat Oberta de Catalunya (UOC) specializing in the study of the Internet and the effects of the interaction of digital technologies with human activity. The IN3 hosts a number of renowned research groups that develop a wide range of researchers of an interdisciplinary nature.

The IN3 aims at establishing a new strand of research devoted to the study of complex systems. For that, a new research group will be created in that field. We expect that the research carried out by this group will contribute to IN3's current interdisciplinary and multidisciplinary research using a complex systems approach to address different aspects of the analysis of the effects of Internet, and of ICT in general, on human activity. The use of the theories and methods of complexity may be especially relevant to our research in areas including, but not limited to, complex networks, computational social science, online social media, mobility and spatial networks, agent-based simulation modeling, or dynamical processes in networks such as spreading phenomena, influence, or opinion dynamics.

This call is addressed to candidates who are willing to enter the Institute and become the leader of the new research group. Applicants should have a strong interest in the application of complexity sciences to social science problems, as well as a demonstrated research experience in related areas of study and research leadership capabilities.

The selected candidate is eligible for a contract with a salary in the standard range for associate or full professors of Catalan research and higher education institutions (depending on the specific merits of the selected applicant).

Main responsibilities

- Lead and manage a research group at the IN3.
- Propose the general strategy of the group.
- Coordinate the activities carried out in the group and get involved into interdisciplinary research with other groups of the Institute.
- Ensure that the processes and mechanisms enable the group (and consequently the Institute and the University) to achieve specific (and global) objectives regarding scientific production, knowledge and technology transfer, fundraising in competitive calls and attracting talent worldwide.
- Any other decided by the IN3 Steering Committee.

Tasks to carry out

1. Strategic

   - Develop a strategic plan with an economic scenario in five or six years showing the expected achievements at every stage.
   - Specify a working plan for periods of two years.
   - Establish targets and indicators, or operational or evaluation criteria, for the different periods of the work plan of the research group.
   - Participate in competitive calls for fundraising (especially international ones) regularly.
   - Establish partnerships with other research groups, institutions or companies.
   - Develop a plan for attracting talent.
   - Design a plan for the transfer of the produced research.
   - Determine the social impact of the research group and develop a plan to improve it.
   - Comply with the ethical aspects of research.
   - Participate in the most relevant international scientific networks in the field of research group (complex systems).

2. Organizational

   - Develop and implement the structure, processes and organizational strategies of the research group.
   - Carry out annual monitoring of the main indicators of the research group, especially in terms of scientific production, transfer and fundraising.
   - Manage the budget of the group, both in terms of funds provided by the University and those obtained through competitive calls.
   - Search the advice of international experts to exchange best practices related to the research in the group.

Requirements (skills, knowledge and abilities)

- Career-recognized research (a doctoral degree and at least six years of research experience in the field of complex systems)
- Experience in management of research (e.g. principal investigator in research grants)
- Knowledge of the principles of strategic planning, resource allocation, leadership techniques, and coordination of people and resources
- Leadership skills in the field of research and knowledge transfer
- Knowledge of the scientific and industry-related business
- Communication skills (spokesperson, conflict management, dissemination, etc.)
- Coaching skills

- Institutional commitment
- Decision-making (entrepreneurship, allocation of resources, negotiating skills, etc.)

Applications

Interested candidates must provide:

1. Short résumé
2. Complete résumé
3. Proposal for the direction of the research group
4. Two samples of scientific achievements (published papers, patents, etc.)

All documents must be submitted in English (except the complete résumé, which can be written in Catalan, Spanish or English).

The short résumé must have a maximum length of five pages, following the format specified by the template published together with this call.

Proposal for the direction of the research group

The proposal for the direction must have **five to ten pages,** and it must be submitted in English. The proposal must contain, at least, the following sections:

A. **Projected group structure:** expected amount of members who will form the group, specifying their category (doctoral students, postdoctoral fellows, associate researchers, technicians, and so on)
B. **Description of the research lines and their relationship with the IN3 focus** (the focus of the IN3 is the study of the effect of the Internet, and ICT in general, on the different areas of human activity)
C. **Interdisciplinary opportunities**
D. **Singularity of the proposal** (at local, national and international levels)
E. **Scientific and management objectives for the period 2016-2018,** aimed at the consolidation of the research group in terms of excellence in research, internationalization, talent attraction and knowledge transfer (please include expected indicators for both fundraising and research outputs)
F. **Collaborations:** list of research groups, companies or institutions with which the applicant has collaborated and expects further collaboration
G. **3-year budget (2016-2018):** assuming a € 50,000 grant from the university (plus the competitive funds that the applicant may already have obtained or would achieve in the near future)
H. **Tasks and planning** for the next three years

All documents should be submitted **by e-mail to direccio_in3@uoc.edu, specifying in the subject the reference GL-ComplexSystems.**

The confindentiality of candidates during and after the selection process is guranteed.

Deadline

Applications must be submitted **before October 19, 2015.**