

ACT Research Fellow on Informatics and Applied Mathematics

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The European Space Agency's Advanced concepts Team (ACT) is currently looking for highly motivated young researchers, with good analytical and communication skills and excellent aptitude for team work. Successful candidates for this position will carry out research in the Informatics and Applied Mathematics field at ESTEC for a maximum of 2 years and will in particular perform the following tasks:

- Carry out research work especially in Operational Research, Neural Networks, Fuzzy Systems, and other, and provide expertise on these and related subjects in support to applied research by other ACT Research Fellows.
- Assess novel and advanced computing methods and architectures, available either currently or in the future, for synergies with space systems. Techniques will include: distributed and parallel computing, evolutionary computing, quantum computing, and other.
- Study mathematical tools, investigate innovative hardware and software systems, and propose and contribute to the development of solutions for both on-board and ground segment (advanced programming methods, languages, networking, , etc.).
- Participate, with the rest of the team, in the assessment of proposed space system concepts - these not being restricted only to the Informatics & Applied Mathematics area - and propose new concepts and assessment studies.
- Provide consultancy and support specific activities in the Concurrent Design Facility (CDF) at ESTEC and for other ESA activities when this is required.
- The candidate should hold a degree in Mathematics, Physics, Computer Science or Aerospace Engineering. He or she should also have completed (or be about to complete) a PhD in Mathematics, Computer Science, Informatics or related topics, the subject of the thesis being relevant to the description of the tasks outlined above. Having good links with universities and research institutes and a strong interest in space science and / or technology are also essential requirements.

The general conditions of eligibility of the ESA Research (Internal) Fellowship Program should be fulfilled; these can be found at <http://www.esa.int/hr/educational/fellow.htm>

Applicants should send their CVs and covering letter, stating their research interests to: act@esa.int

Deadline for application submission is **01/09/2003**. However please note that **applications will be given consideration until the position is filled**, so early applications are encouraged.