

## ACT Research Fellow on Advanced Propulsion

(posted: 12/06/2003)

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 Advanced Space Propulsion field at ESTEC for a maximum of 2 years and will in particular perform the following tasks:

- Investigate and assess novel propulsion concepts and technologies, either currently available or foreseen in the future (no matter how distant this may be). Areas of research will include: Nuclear thermal propulsion, high Isp - high thrust propulsion systems, "Propellant less" propulsion systems, Advanced Earth-to-Orbit transportation systems, and other.
- Provide expertise in propulsion-related technologies and equipment, in support to applied research by other ACT members.
- Study and/or develop mathematical tools, models and techniques where relevant, related to the tasks described above.
- Participate, with the rest of the team, in the assessment of proposed space system concepts (these not being restricted only to the Propulsion field) 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 Aerospace Engineering, Nuclear Engineering, Physics, or Mathematics. He or she should also have completed (or be about to complete) a PhD in Aerospace Engineering, Nuclear Engineering, Physics, or Mathematics, 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](mailto: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