

Assistant Professor

Ecole/Institution/Société:

Delft University of Technology, Netherlands / Delft

Discipline:

Aerospace Engineering

Type d'emploi::

Full-time

Date de publication:

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Personne à contacter:

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Assistant or Associate Professor Metallic materials for space applications

Faculty Aerospace Engineering

The faculty of Aerospace Engineering at Delft University of Technology is one of the world's largest faculties devoted entirely to aerospace engineering. In the Netherlands it is the only research and education institute directly related to the aerospace engineering sector. It covers the whole spectrum of aerospace engineering subjects.

In aeronautics, the faculty covers subjects ranging from aerodynamics and flight propulsion to structures and materials and from control and simulation to air transport and operations. In astronautics, topics include astrodynamics, space missions and space systems engineering. The faculty has around 2,700 BSc and MSc students, 225 PhD candidates and 27 professors supported by scientific staff.

The faculty's mission is to be the best Aerospace Engineering faculty in the world, inspiring and educating students through modern education techniques and enabling staff to perform ambitious research of the highest quality for the future of aerospace. The working atmosphere at the faculty is friendly, open-minded and dedicated.

Novel Aerospace Materials (NovAM) specialises in the design and development of new materials for aerospace and other high-tech applications. Our research covers metals, polymers, self-healing materials and SMART materials.

Job description

While the department has a well-established expertise in the development of metallic and non-metallic materials for aviation, given the increased and sustained interest in space applications, we decided to broaden our portfolio and to start a new position in the field of metallic materials for space. While polymers and composites will be relevant for space applications too, that field of materials science will be covered by our existing staff.

The ideal candidate is expected to develop an own research line in which science-based innovative metallic concepts are combined with suitable metal processing techniques to come up with new industry-relevant concepts and approaches.

We expect you to:

- Develop, conduct and supervise high-quality academic research;
- Inspire our BSc, MSc and PhD students through teaching and supervision;
- Collaborate with specialists in academia, research centres and industry in multidisciplinary projects;
- Transfer theory to innovative technology;
- Secure external funding for research projects;
- Be an inspiring contribution to our ASM staff and take part in its overall functioning

In return, you may expect from us that we will support and coach you in setting up your research and educational profile and in building your academic and industrial network. We will offer you our excellent research facilities and our help in expanding them to accommodate the needs following from your new research lines.

Requirements

Candidates are expected to be, or be on their way to becoming, authorities in their own field of research.

Applicants should have the following qualifications:

- A PhD degree in Metallurgy or Materials Science and Engineering (specialization field : metals or technical ceramics)
- and additional professional expertise acquired via one or more suitable post-doc positions or positions of comparable level in industry or elsewhere.
- Experience in working in the field of metallic materials and space applications.
- A public track record in scientific research, as evidenced by papers in peer-reviewed journals and presentations at international

conferences.

At the start of the tenure-track you will be appointed as Assistant or Associate Professor for the duration of six years. The section leader, the head of department and you will agree upon expected performance indicators and (soft) skills. You will receive formal feedback on your progress during annual assessment meetings and in the mid-term evaluation by the departmental committee. If the performance and skills are evaluated positively at the end of the tenure track (or as soon as you have shown your good fit to the position), the position will be made tenure.

Conditions of employment

A tenure-track position is offered for six years. Based on performance indicators agreed upon at the start of the appointment, a decision will be made by the fifth year whether to offer you a permanent faculty position. For circumstances as having children or parental leave during the tenure track, it is possible to delay the definitive assessment and extend the Tenure Track appointment to a maximum of 8 years.

The TU Delft offers a customisable compensation package, a discount for health insurance and sport memberships, and a monthly work costs contribution. Flexible work schedules can be arranged. Coming to Delft Service and Partner Career Advice can support with advice for you and your accompanying partner about your individual settling needs in the Netherlands.

Once arrived you can be supported with individual consults and diverse workshops. Located on campus are the International Children's Centre and an international primary school which are subject to availability as well as several bilingual schools in the nearby surrounding. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.

The TU Delft sets specific standards for the English competency of the teaching staff. The TU Delft offers training to improve English competency.

Inspiring, excellent education is our central aim. If you have less than five years of experience and do not yet have your teaching certificate, you get the chance to obtain this within three years.

You will have 232 hours of paid leave each year and in addition to your salary, at TU Delft you will receive an annual holiday allowance of 8% and a year-end bonus of 8.3% of your salary.

Information and application

For more information, please contact Prof.dr.ir. S. van der Zwaag, phone:+31 (0)15 2782248, email: S.vanderZwaag-1@tudelft.nl.

To apply, please send a detailed CV, along with a short letter of motivation, names and contact details of two persons who can provide references, a publication list, an abstract of your PhD thesis and two selected publications, compiled into a single pdf file named lastname_firstname_yearofbirth.pdf. Please send your application to Shanta Visser, email: S.P.Visser@tudelft.nl.

When applying, please refer to vacancy number LR19-21. If your PhD diploma is not in Dutch, English, French or German and you will be the selected candidate, the TU Delft will ask you to deliver a certified translation.

Enquiries from agencies are not appreciated.

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