Vacancy No. 289/2025

Chemical Engineer or Process Engineer (f/m/d)

Polyfluorinated substances (PFAS) are found all over the world in water, drinking water, soil and also in offices and sales areas where materials containing flourine are used or sold, in varying concentrations. A large number of the approximately 14,000 individual substances currently known are particularly stable in the environment and some have harmful effects on health.

Products and residues containing PFAS must therefore be safely degraded and the end of their life and converted into harmless substances. In plants for thermal treatment or recycling processes, a very high degree of degradation must be ensured and recorded by appropriate measurements. The aim of the investigations at the Institute of Technical Chemistry (ITC) is to improve our understanding of PFAS degradation under the conditions of incineration and pyrolysis plants.

We have suitable test facilities, sampling and analysis methds to evaluate the PFAS behaviour.

Job description

Your tasks will include:

- Planning, conducting, and evaluating experimental studies on the detection and degradation of PFAS, both in defined laboratory experiments and at pilot or industrial scale.
- The focus will be on the further development of analytical methods as well as the understanding and description of PFAS degradation as a function of chemical reaction conditions.
- You will work within a team and collaborate on relevant research projects with internal and external partners.

Personal qualification

- You have completed your university degree (chemical engineering, process engineering, technical chemistry, or related disciplines) with excellent grades.
- You show a strong interest in scientific work and are pursuing a doctorate.
- Experience in sampling and analytics is desirable.
- Very good English skills are required.

Organizational unit

Institute for Technical Chemistry (ITC)

Starting date

15.09.2025

Salary

Salary category 13 TV-L, depending on the fulfillment of professional and personal requirements.

Contract duration

December 31st, 2027.

Application up to

September 1st, 2025

Contact person in line-management

For further information, please contact Dr.-Ing. Hans-Joachim Gehrmann,

hans-joachim.gehrmann@kit.edu.

Application

Please apply **online** using the button below for this vacancy number 289/2025 .
Personnel Support is provided by

Ms Rink
phone: +49 721 608-25004,

Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany

We prefer to balance the number of employees (f/m/d). Therefore we kindly ask female applicants to apply for this job.
Recognized severely disabled persons will be preferred if they are equally qualified.