NATIONAL INSTITUTE OF CHEMISTRY
Department for Inorganic Chemistry and Technology
Laboratory for Environmental Sciences and Engineering

CALL FOR DOCTORAL STUDENTS AND POST-DOCTORAL FELLOWS

Upper-class students, PhD candidates and post-doctoral fellows in the fields of chemistry, chemical engineering and related natural and technical sciences are invited to apply for fellowships in the following research areas:

- **Environmental catalysis**

Purification of potable and waste water by means of advanced oxidation processes (heterogeneous photocatalytic oxidation, catalytic wet air oxidation, wet peroxide oxidation)

Catalytic processes in the field of energy, production of hydrogen rich gas mixtures and high added value compounds (methane dry reforming with carbon dioxide)

- **Multifunctional nanoshaped and nanostructured catalysts**

Application of modern synthesis protocols for fabrication of heterogeneous catalysts with controlled porosity and well-defined shapes on nanometer scale

- **Characterization of heterogeneous catalysts**

Advanced instrumental techniques including *in situ* and *operando* spectroscopic methods for determination of morphological, surface, optical and electronic properties of materials



Suitable candidates, who are willing to gain experience abroad and work in the Laboratory for Environmental Sciences and Engineering, will have access to state of the art research equipment and enjoy the fruitful collaboration of top scientists. Lodging facilities and payments to cover living expenses will be generously provided.

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