

Marie Curie Initial Training Network MINILUBES

MINILUBES is a scientific network performing highly interdisciplinary investigation in the area of ***mechanisms of interactions in nano-scale of novel ionic lubricants with functional surfaces.***

MINILUBES is composed of 12 academic and industrial project partners throughout Europe taking advantage from the expertise in ionic liquid synthesis, lubricant analysis, toxicological assays, material science and processing, friction and wear testing as well as mathematical modelling and simulation of rubbing contacts. Further information can be found on www.minilubes.net.

We offer a position for an **Early Stage Researcher** with work focus on ***“Mathematical models for the correlation between mechanical strength and specific load carrying capacity of porous materials”***

for a period of up to 3 years with the opportunity to carry out a PhD study. Additionally the fellow will be able to perform parts of the investigations at some network partners in order to extend the scientific and complementary skills, e.g. project management, presentation, languages. Further, the fellow will actively participate in network meetings, training workshops, and will be encouraged to attend international conferences while receiving the support required for publications.

Early-stage researchers (ESR) are defined as researchers in the first 4 years of their research activity counted from the diploma (the degree must entitle to embark on doctoral studies, without having to acquire any further qualifications).

Researchers must be nationals of a state other than that of the host organisation and may not have resided or carried out their main activity (work, studies, etc.) in the country of their host organisation for more than 12 months in the last 3 years.

The applicant should have background as follows:

- Master degree in Physics, Mechanical Engineering or Applied Mathematics
- Experience with emphasis on strong mathematical background
- Knowledge of numerical modelling and simulation
- Basic education in the field of surface analysis
- Advanced English, analytical and interdisciplinary thinking
- Skills in tribology are useful but not obligatory

For more details see ESR02 under “Vacancies” on www.minilubes.net or directly contact the network coordinator. Please send your application documents to:

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AUSTRIA

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