

Institut universitaire romand de Santé au Travail

Institut für Arbeit und Gesundheit

Institute for Work and Health

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Job announcement

We are seeking a

PhD-student

for the study of

Fate of nanoparticles in the lungs and their biological effects

This project studies the fate of inhaled nanoparticles in the lungs after inhalation, and what is their biological effect, with a focus on oxidative stress. You will first set up the exposure system, then recruit volunteers, expose them to nanoparticles and control conditions, and collect biological fluids. These liquids will then be analyzed in the laboratory. The completion of the project includes analysis of the data and the publication of the results in scientific journals and presentations at conferences.

Task: Your task will be to conduct the human exposure (prepare and run exposure system, organize sample collection, document experiments and store all data), help analyze the biological samples, build up a database, evaluate the data, and write reports and articles.

Job-Type: This is a 100% job. Job-sharing is not possible.

Your profile:

Masters degree in natural sciences e.g. in pharmaceuticals, physiology, biochemistry, molecular biology, toxicology, public or environmental health

Practical laboratory experience (e.g. chemical analytics, aerosol characterization)

Ability to solve problems and to work independently

Fluent in spoken French and excellent English writing skills

Workplace: Lausanne, Switzerland

Expected entrance: at earliest convenience.

Deadline: Until position is filled.

Contact address: Resource humains
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About us: The Institute for Work and Health (IST) is a non-profit higher education and research institute entirely devoted to occupational health. IST is associated with the universities of Lausanne and Geneva and is a World Health Organization Collaborating Center. The research group "Particles and Health" at the IST studies the human exposure to particles and co-pollutants, work activities and how these factors affect cardiovascular and pulmonary health.