



WORK OFFER

Ref. No. AT-2022-5002LZ

Employer Information

Employer: Zentrum für Oberflächen- und Nanoanalytik (ZONA) JKU
Altenbergerstraße 69
4020 Linz
Austria

Website:
Location of placement: Linz
Nearest airport: Linz
Working hours per week: 30.0
Working hours per day: 6.0

Number of employees: -
Business or products: Research

Student Required

General Discipline: PHYSICS;CHEMISTRY AND CHEMICAL ENGINEERING

Field of Study: Physics, General.;Theoretical and Mathematical Physics.;Physical Chemistry.;Chemical Physics.

Completed years of study: 3.5

Student status requirements: not needed, but might be advantageous

Language required: English Excellent (C1, C2)

Required Knowledge and Experiences:
theoretical background in physics (numerical and computational physics), simulation work in physics
knowledge in VASP, WIEN, QUANTUM Espresso

Other requirements:
must be Master's student (very good grades!)
Chemical Engineering students are not eligible for this position as the work is settled at the borders of physics and chemistry

Work Offered

The topic of the internship is of theoretical nature and involves heuristic modelling, but HEAVY computational load, e.g. by VASP, WIEN, QUNATUM Espresso or similar.
Tasks will be computing for organic materials, their structure and their electronic band structure. In addition, the effect of a static magnetic field on the band structure (i.,e QM Zeeman effect to predict the optical Kerr effect) will be investigated.

Number of weeks offered: 36 - 52

Within the months: 01-NOV-2021 - 30-NOV-2022

Or within: -

Company closed within: -

Working environment: Research and development

Gross pay: 900 EUR / Month

Deduction to be expected: ~ 20%

Payment method / time of first payment: Bank Transfer / monthly

Latest possible start date:

Accommodation

Canteen at work: Yes

Expected type of accommodation: Student dormitory

Accommodation will be arranged by: IAESTE

Estimated cost of lodging: 350 EUR / Month

Estimated cost of living incl. lodging: 650 EUR / Month

Additional Information

Interview conducted by IAESTE and employer.
This is preAC offer, we will require an offer in return at the upcoming AC.

Nomination Information

Deadline for nomination: 20-OCT-2021

Date: 06-OCT-2021 **On behalf of receiving country:** IAESTE Austria