### Angebot

**Titel**
Research Associate

**Einsatzort**
Pfaffenwaldring 57
70569 Stuttgart
Deutschland

**Beschreibung**
There is a vacancy at the Institute of Theoretical Physics IV concerning a Research Associate position.

The envisioned research topic is focused on the effective interactions of chemically active particles of complex shapes with interfaces.

An important class of active matter systems is that of chemically active particles. These particles can achieve self-propulsion via the catalytic promotion of chemical reactions in the surrounding solution on their surface. Such systems serve as benchmark examples for non-equilibrium processes, while from an application viewpoint they are envisioned, e.g., to act as “carriers” in novel lab-on-a-chip devices.

The aim of this project is to understand the non-equilibrium dynamics exhibited by non-spherical (e.g., spheroidal, L-shaped, etc.), and lacking axial symmetry, chemically active particles when they operate nearby confining boundaries. This will be characterized in terms of the emerging interface-bounded steady states of motion and the possible coexistence of such states.

This position is limited for 18 months, starting October 1, 2020.
Application should be sent to janne.mar@itp4.uni-stuttgart.de until April 10, 2020.

### Anforderungsprofil

PhD in Physics or related fields (Chemical or Mechanical Engineering), very good knowledge of statistical physics, fluid dynamics and transport phenomena, experience with scientific computing and numerical methods is highly desirable.

### Vergütung
TV-L E13

### Art der Beschäftigung
Vollzeit

### Zeitraum der Beschäftigung
01.10.2020 - 31.03.2020

### Bewerbungsfristende
Freitag, 10. April 2020 - 23:59
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<td><strong>Vorname</strong></td>
<td>Siegfried</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Dietrich</td>
</tr>
<tr>
<td><strong>Telefon</strong></td>
<td>+49 711 68565251</td>
</tr>
<tr>
<td><strong>E-Mail</strong></td>
<td><a href="mailto:janne.mar@itp4.uni-stuttgart.de">janne.mar@itp4.uni-stuttgart.de</a></td>
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**Link zu dieser Stellenanzeige:** [https://www.stellenwerk-stuttgart.de/jobboerse/wissenschaftl-stellen-research-associate-s-2020-03-27-307302](https://www.stellenwerk-stuttgart.de/jobboerse/wissenschaftl-stellen-research-associate-s-2020-03-27-307302)

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