

## Several Postdoc and PhD positions at the Salzburg Center for Smart Materials

University of Salzburg invites applications for several positions in a multidisciplinary project on smart materials. In a joint effort between three research labs, this project aims to forge new links between material science and human-computer interaction. The successful candidates will form part of an interdisciplinary team that aims to create new stable and accessible materials that allow for novel interfaces and meaningful interactions. In order to achieve this aim, the project will address the development of new (functional) hybrid materials based on sol-gel processing of biogenic and ceramic precursors and apply constructive design research to unveil the potential of those new (interactive) materials.

The **Salzburg Center for Smart Materials** is a joint project of the Department **Chemistry and Physics of Materials** and the **Center for Human-Computer Interaction** at the Paris Lodron University of Salzburg in collaboration with the research department **Forest Products Technology & Timber Construction** at Salzburg University of Applied Sciences. This project is co-funded by the European Fund for regional development ([www.efre.gv.at](http://www.efre.gv.at)).

*Successful candidates will be affiliated to one of the following hosting partners:*

*The Department **Chemistry and Physics of Materials** capitalizes on its interdisciplinary approach which involves the disciplines chemistry, physics, materials science and mineralogy and addresses the design and development of inorganic materials, nanomaterials and hybrids as well as functional interfaces derived therefrom.*

*The **Center for Human-Computer Interaction** is a highly interdisciplinary research group at the University of Salzburg. About 30 researchers study the interplay between humans and computers in order to enable desired interactions and explore desirable futures. The Center is committed to contemporary HCI thinking and address current research questions, while also valuing established methodology and formerly prevalent domains.*

### What we offer:

- Interdisciplinary, vibrant groups of researchers
- A multi-year research project with a ground-breaking, trans-disciplinary vision
- Extraordinary research facilities that support individual styles of working
- An international, well-established network of research and industry partners

## **PhD Position on Functional Porous Materials**

*This position will be affiliated to the Department Chemistry and Physics of Materials.*

### **Your profile:**

- You completed your master studies in Chemistry, Materials Science, or a related program that you consider relevant for the aforementioned research directions
- You have excellent skills and practical experience in one or more of the following research areas: sol-gel and/or polymer chemistry, wood science, materials synthesis and characterization
- Experiences with academic or industrial research projects and publications would be a plus

### **Desired additional qualities:**

- Passion for academic research
- Perfect command of English (in writing and speaking)

**Deadline for application:** February 10, 2019

**Intended date of beginning:** March 2019 (to be negotiated)

*The PhD position is offered in accordance with the University and Employee Law and with § 26 of the "Kollektivvertrag für die ArbeitnehmerInnen der Universitäten" (Collective Agreement for University Employees; group B1; the gross monthly salary for 30 hours is EUR 2.096,00, 14x per year). The successful candidate will first be offered a temporary position of one year with the option of renewal for up to three more years.*

**Application:** Please send your application including motivation letter, CV, and contact details of academic references to [office@hci.sbg.ac.at](mailto:office@hci.sbg.ac.at) not later than February 10, 2019 (please state the reference number in your application: 2019\_IWB\_PhD\_CPM).

In case of questions please contact: [nicola.huesing@sbg.ac.at](mailto:nicola.huesing@sbg.ac.at)

## **Postdoc Position on Functional Porous Materials**

*This position will be affiliated to the Department Chemistry and Physics of Materials.*

### **Your profile:**

- You aim to further develop your individual research profile in one or more of the following research areas: sol-gel processing with biogenic and ceramic precursors, nanomaterials, hybrid materials and interfaces, solid state chemistry and highly porous materials
- You completed your doctoral studies in Chemistry, Materials Science, Wood Science or a related program that you consider relevant for the aforementioned research directions
- You have excellent skills and practical experience as well as an according track record in one or more of the following research domains: Sol-gel or polymer chemistry, characterization of porous materials, electron microscopy
- You have experience with coordinating academic and/or industrial research projects, substantial knowledge in chemical synthesis as well as established networks within the international research community
- Teaching experience would be a plus

### **Required personal qualities:**

- Capacity for teamwork, resilience, purposefulness
- Passion for academic research and teaching
- Perfect command of English (verbal and written)

**Deadline for application:** February 10, 2019

**Intended date of beginning:** March 2019 (to be negotiated)

**Duration:** 2 years (with the option to be extended)

*The Postdoc position is offered in accordance with the University and Employee Law and with § 26 of the "Kollektivvertrag für die ArbeitnehmerInnen der Universitäten" (Collective Agreement for University Employees; group B1; the gross monthly salary for 40 hours is EUR 3.711,10, 14x per year).*

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In case of questions please contact: *nicola.huesing@sbg.ac.at*

## **PhD Position on Smart Materials and HCI**

*This position will be affiliated to the Center for Human-Computer Interaction.*

### **You may apply for one or more of the following PhD directions:**

- Constructive design research on smart material interaction
- Design research with focus on design fiction, materials, and materiality
- Experimental engineering for novel interface technologies (e.g., sensor technology, RF based interfaces)

### **Your profile:**

- You completed your master studies in Human-Computer Interaction, Computer Science, Interface Design, Interaction Design, Interior Design, Product Design, Electrical Engineering, or a related program that you consider relevant for the aforementioned research directions
- You have excellent skills and practical experience in one or more of the following research areas: Human-Computer Interaction, Interaction Design Research, Tangible Interaction, Embodied Interaction, Physical Computing, Design Fiction
- Experiences with academic or industrial research projects and publications would be a plus

### **Desired additional qualities:**

- Passion for academic research
- Perfect command of English (in writing and speaking)

**Deadline for application:** February 10, 2019

**Intended date of beginning:** March 2019 (to be negotiated)

*The PhD position is offered in accordance with the University and Employee Law and with § 26 of the "Kollektivvertrag für die ArbeitnehmerInnen der Universitäten" (Collective Agreement for University Employees; group B1; the gross monthly salary for 30 hours is EUR 2.096,00, 14x per year). The successful candidate will first be offered a temporary position of one year with the option of renewal for up to three more years.*

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In case of questions please contact: [office@hci.sbg.ac.at](mailto:office@hci.sbg.ac.at)

## **Postdoc Position on Smart Materials and HCI**

*This position will be affiliated to the Center for Human-Computer Interaction.*

### **Your profile:**

- You aim to further develop your individual research profile in one or more of the following HCI related research areas: smart materials, hybrid materials / hybrid interaction, embodied interaction
- You completed your doctoral studies in Human-Computer Interaction, Computer Science, Interface Design, Interaction Design, Electrical Engineering, or a related program that you consider relevant for the aforementioned research directions
- You have excellent skills and practical experience as well as an according track record in one or more of the following research domains: Human-Computer Interaction, Interaction Design Research, Tangible Interaction, Embodied Interaction
- You have experience with coordinating academic and/or industrial research projects, substantial knowledge of research methods and HCI theories, as well as established networks within the international research community
- Teaching experience would be a plus

### **Required personal qualities:**

- Capacity for teamwork, resilience, purposefulness
- Passion for academic research and teaching
- Perfect command of English (verbal and written)

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*Paris-Lodron University Salzburg particularly welcomes applications from women in accordance with its mission to increase the number of women in academic positions. In case of equal qualification, female applicants will be hired preferentially. Individuals with disabilities or chronic conditions, who meet the required qualifications, are explicitly invited to apply. Further information will be provided by via [disability@sbg.ac.at](mailto:disability@sbg.ac.at).*

*Unfortunately, travel and accommodation expenses for job interviews will not be reimburse; if applicable, remote interviews can be arranged. Employment will be done in agreement with the University rules 2002 (UG) as well as the Employee rules.*