## Job posting

<table>
<thead>
<tr>
<th>Type of position</th>
<th>Target group</th>
</tr>
</thead>
<tbody>
<tr>
<td>☒ scientific</td>
<td>☒ graduates</td>
</tr>
<tr>
<td>☐ administrative</td>
<td>☒ post docs</td>
</tr>
<tr>
<td>☐ other</td>
<td></td>
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</tbody>
</table>

**Title**

Post-doc position (100% TV-L E13 pay scale): 4D printing of smart and adaptive biomaterials

**Institution**

Within the Cluster of Excellence 3D Matter Made to Order (3DMM2O), which is supported by the DFG (German Research Foundation) as part of the Excellence Strategy, there is 1 open position for Doctoral Researchers (f/m/d). In the group of Prof. Fischer (IMSEAM (uni-heidelberg.de)), we are looking for a PhD and a Postdoctoral candidate for an exciting project on bioprinting and acoustic assembly methods. The Cluster of Excellence 3D Matter Made to Order (3DMM2O) combines the competencies of Karlsruhe Institute of Technology (KIT) and Heidelberg University to advance 3D Additive Manufacturing to the next level. The goal is to break current barriers of scale, precision and speed to unleash the true potential of the technology. The work is aligned alongside three interdependent Research Areas: Molecular Materials (A), Technologies (B) and Applications (C). More on the Cluster and its research on our website: www.3dmm2o.de.

**Position**

Within the frame of the Cluster of Excellence 3D Matter Made to Order (3DMM2O), the Blasco group focus on the development of new polymer-based functional materials with application in 4D microprinting. The additional fourth dimension refers to the ability of the printed materials to change its properties, such as shape or functionality, over time. Adaptability is a key feature for the applications in life sciences. Dynamic systems that can be adapted and interact with the cells are highly desired in order to mimic the 3D cellular environment in living organisms.

**Responsibilities**

The group is seeking a highly motivated post-doctoral researcher with a strong interest in polymer chemistry as well as 3D printing. The aim of the project is the development of new adaptive multi-responsive printable biomaterials that can be applied in biomedical applications. The post-doctoral researcher will work in an interdisciplinary and international environment with state-of-the-art equipment and facilities at newly funded Centre for Advanced Materials (CAM) at Heidelberg University.
**Requirements**
- PhD degree in chemistry or material science
- Background in synthetic organic and polymer chemistry
- Experience in 3D printing and biomaterials is advantageous
- Good level of English (oral and written) is essential

Qualified women are strongly encouraged to apply. Disabled persons with equivalent aptitude will be favored.

For further questions about the project, you can contact Eva Blasco.

**Application procedure (deadline etc.)**
Please send your application directly to Eva Blasco (eva.blasco@oci.uni-heidelberg.de).
The application period is open until 31.12.2022. We will start reviewing applications immediately.

**Contact**
Eva Blasco (eva.blasco@oci.uni-heidelberg.de).