

## Internship offer for international exchange students (ERASMUS+ student mobility practical training)

Please send your applications to [incomings.io@hawk.de](mailto:incomings.io@hawk.de).

<b>Internship provider at HAWK University of Applied Sciences and Arts</b>	Faculty of Engineering and Health Laboratory for non-invasive imaging for medicine Von-Ossietzky-Straße 99
<b>Location</b>	Göttingen / Germany
<b>Contact person at HAWK</b>	<a href="#">Prof. Dr. Claire Chalopin</a> , professor for data-driven imaging in medicine  Contact person at the International Office in Göttingen: <a href="#">Ms Lea Schwacke</a>
<b>Possible start of internship</b>	Between October 1 – March 31 or April 1 – September 30
<b>Duration of internship</b>	3 – 6 months (voluntary internships which are not part of the curriculum may last a maximum of three months, compulsory internships may last longer)
<b>Places available</b>	One intern at a time
<b>Language requirements</b>	English or German: B1 or higher
<b>Payment</b>	None – financing through ERASMUS+ grant of home institution possible (contact your international office for further details)
<b>Internship open for the following study programmes</b>	<input checked="" type="checkbox"/> Bachelor level / <input checked="" type="checkbox"/> Master level <input checked="" type="checkbox"/> Engineering (medical technology, electrical engineering, computer science, others also possible) / <input checked="" type="checkbox"/> Physics / <input checked="" type="checkbox"/> Maths
<b>Content of internship</b>	<p>The research of the „data-driven imaging in medicine” group focuses on the evaluation and further development of innovative non-invasive imaging methods for medical applications. Non-invasive imaging methods are not ionizing and does not require any contrast agent. They are for example infrared-thermography, spectral imaging, 3D scanning and electrical impedance tomography.</p> <p>Our research follows three main directions. Firstly, we develop in collaboration with our medical partners clinical studies on healthy participants and patients to evaluate the imaging methods for a specific medical problem. Secondly, we imagine with industrial partners new image-guided devices to support physicians in the diagnosis, therapy and monitoring of diseases. Thirdly, we develop image processing and analysis tools based on AI-approaches to support physicians in the interpretation of the image data.</p>

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	<p><u>Tasks of the intern:</u></p> <ul style="list-style-type: none"> <li>• Acquisition of image data on healthy participants with our camera systems in our lab according to pre-defined study protocols</li> <li>• Analysis of the results using statistical analysis</li> <li>• Development of AI-based methods for the analysis of the image data (e.g. image registration, segmentation and classification) using Python</li> <li>• Development of user interfaces for the visualization and analysis of the image data</li> </ul> <p><u>At the end of the practical work, the candidate should master the following competences/skills:</u></p> <ul style="list-style-type: none"> <li>• Background of specific non-invasive imaging methods</li> <li>• Development of studies</li> <li>• Practical acquisition of image data with our camera systems</li> <li>• Statistical methods for data analysis</li> <li>• Development of AI-based methods using Python</li> <li>• Development of user interfaces</li> <li>• Scientific methods of evaluation</li> <li>• Presentation of results to the other group members</li> <li>• Team working within an international environment</li> </ul>
<b>Nomination</b>	<p>Incoming ERASMUS+ interns need to be nominated by their home universities via email to <a href="mailto:incomings.io@hawk.de">incomings.io@hawk.de</a> and to Prof. Chalopin. Nomination deadlines are June 1 for internships in the upcoming winter term (October 1 – March 31) and November 1 for internships in the upcoming summer term (April 1 – September 30).</p>
<b>Application process</b>	<p>After the nomination, potential interns receive an email by the International Office with further information on how to apply for internships. The following application documents are required:</p> <ul style="list-style-type: none"> <li>▪ transcript of records</li> <li>▪ copy of passport</li> <li>▪ proof of health insurance (EHIC)</li> <li>▪ passport photo</li> <li>▪ language certificate (if applicable)</li> <li>▪ proof of compulsory internship (if internship duration is longer than 3 months)</li> </ul> <p>For the duration of the internship, ERASMUS+ interns are enrolled as exchange students at HAWK. They are thus required to pay the <a href="#">semester fee</a> but can profit from benefits of the student status, such as a semester ticket for trains and busses, reduced cafeteria prices and student discounts. Enrolled incoming interns are required to initiate a learning agreement (ERASMUS+) after successful application.</p>
<b>Accommodation</b>	<p>Accommodation cannot be provided if internship lasts less than one semester, however assistance is given. Students interested in staying for a complete semester of 5-6 months (October – March OR April – September) are recommended to apply for housing through the university.</p>