

**(Project Work and) Master's Thesis
FS 2024**Head: Prof. Dr. Robert Boes
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Imanoura river: Improvement of aquatic habitat in a local urban area

The Imanoura River flows through the urban area of Iwata City, Shizuoka Prefecture. It is a small river with a basin area of 40.09 km² and a channel extension of 7.2 km, located at a point where it joins various tributary rivers and is affected by sea level. The river is a flood control-oriented river with abundant spring water, but its habitat and river conditions are deteriorating (Fig. 1).



Fig. 1: Imanoura river located in Iwata city, Shizuoka Pref.

This master's project will be carried out in the field in Japan. The main objective is to establish how the installation of consecutively assembled boulders in urban rivers ensures the migration, refuge, and growth environment for aquatic animals. Accordingly, to establish a method of constructing assembled boulders in a local urban area and to periodically survey how the habitat, refuge, and growth environment for native aquatic animals is secured. These results will be reflected in the resulting thesis. 6 months of total workload will be required.

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Remarks: Project-oriented thesis, topic can be distributed more than once;
For Civil Engineering: Project must be continued with a follow-up project as part of the Master's thesis (only Master's thesis or Project Work is not possible). For Environmental Engineering: Can only be chosen as a Master's thesis.
This project is available in English and Japanese. Accommodation will be provided in university housing (Funabashi campus in Chiba Prefecture). Transportation for the research will be provided. The university has two campuses, one in Tokyo and the other in Chiba, and we will support your travel between the two campuses. Please check further financial support over ETH's [Erich-Degen-Stiftung](#).