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Scientific software development

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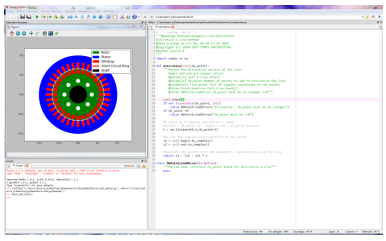

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EOMYS R&D engineers have strong skills in software development and IT project management. Combined with their skills in applied physics, mathematics and scientific computing, this enables them to **implement and validate robust, easy to maintain and optimized scientific applications** (e.g. development of MANATEE software)

EOMYS added value is to start directly from some scientific publications (description of physical equations or mathematical models) to deliver a numerical simulation environment (including post-processing tools and Human to Computer Interface if required). EOMYS can also **customize open-source software** to specific industrial simulation workflows, or translate scientific codes from one language to another.

The development of scientific software includes the following tasks:

- State of the art of **simulation models**
- Writing of **technical and functional specifications**
- Design of an **evolutive software architecture**
- Code writing for **core calculations** including unit-tests
- Design of **user-friendly Graphical User Interface (GUI)** to define simulation models and post-process the results
- Code writing of the GUI
- **Computation time** optimization (algorithm, multi-threading...)
- Creation of **validation cases**
- Writing **documentation**
- **Training** on the simulation environment

Each of these task can be ordered separately according to your needs. Please use the contact page to request a quote.

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