

# Bioinformatics Software Management and Metadata Curation

This one-day course on *Bioinformatics Software Management and Metadata Curation* introduces practical approaches to helping make research software in the health and life sciences sustainable and FAIR (Findable, Accessible, Interoperable and Reusable). The course addresses the growing expectations from funders, publishers, and the scientific community for transparent software lifecycle management and high-quality software metadata.

The morning session focuses on Software Management Plans (SMPs), covering principles of research software lifecycle planning, documentation, versioning, licensing, testing, and long-term maintenance. Participants will gain hands-on experience on how to write and review SMPs that support research integrity, reproducibility and sustainability, while protecting privacy-sensitive data.

The afternoon session is devoted to software metadata curation using the *bio.tools* bioinformatics software registry. Participants will use the EDAM ontology to describe the functions, inputs and outputs of bioinformatics tools, including their own if they so wish, and explore semi-automated curation workflows to enhance software discoverability by exchanging software metadata between registries and code repositories.

By combining bioinformatics software management planning with practical curation skills, this course provides software developers and infrastructure providers with general strategies and practical skills to make bioinformatics research software more sustainable, open, and aligned with FAIR principles. **The course is aimed at PhD students, postdocs, scientific programmers, researchers and managers who develop or manage research software.**

The course is organized in collaboration with the LUMC-DCC project "Implementation of FAIR software stewardship support" and the TDCC-LSH project "A FAIR Tool Framework for Bioinformatics Services, Tools, and Workflows in Digital Life Sciences and Health (LSH) Research". The course instructors are Anna Niehues, Mariia Steeghs-Turchina, Ana Mendes and Magnus Palmblad from the LUMC.

**Date: Friday June 12, 2026**

**Location: LUMC, room V-02-018/022 (in [building 3](#), bring your own laptop!)**

## **Programme:**

09:15-10:00	Introduction to research software management
10:00-10:15	Break
10:15-12:00	Hands-on training on writing and evaluating SMPs
12:00-13:00	Lunch (provided)
13:00-13:45	Introduction to software metadata curation
13:45-15:00	Curation of a bioinformatics tool
15:00-15:15	Break
15:15-16:00	Presentation and discussion of curations
16:00-16:15	Wrap-up and closing