

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher : Kaarthik RS
- User Type : Ph.D. Scholar
- Institution Name : Amrita Vishwa Vidyapeetham, Coimbatore
- Institutional Contact No: +91-422-2685000
- Research Topic : Algae hydrogels for heavy metal removal

Software Request Details

- Software Name : COMSOL Multiphysics 6.0 + Advanced Modules
(CFD Module, Polymer Flow Module, Microfluidics Module, Porous Media Flow Module, Subsurface Flow Module, Pipe Flow Module, Molecular Flow Module, Structural Mechanics Module, Composite Materials Module, Multibody Dynamics Module, Battery Design Module, Optimization Module, Material Library, Particle Tracing Module, Liquid & Gas Properties Module, Chemical Reaction Engineering Module)
- Justification for Software Request: I have developed algae-based hydrogels which are capable of removing heavy metal ions from wastewater. As a next part of my research, I wish to simulate the application of hydrogels in different types of reactors, and model the adsorption of large volumes of heavy metal solutions. I require license and access to the COMSOL Multiphysics software along with the advanced modules.

Guide/Supervisor Approval

I, Dr Asha Sathish (Associate Professor, Department of Chemistry, Amrita School of Physical Sciences, Amrita Vishwa Vidyapeetham, Coimbatore),

- Confirm that the above-mentioned researcher is affiliated with our institution
- Have reviewed the software request and its relevance to the researcher's academic work
- Approve the software request for research purposes

Approval Confirmation

- I approve the software request
- The software aligns with the researcher's research objectives
- The request meets the institutional research guidelines

Guide/Supervisor Signature :

Asha Sathish

Date :

21/3/2026

Official Stamp/Seal

Dr. Asha Sathish
Vice Chairperson
Department of Chemistry
Amrita School of Physical Sciences
Amrita Vishwa Vidyapeetham
Coimbatore