

ASM Materials Genome Toolkit Program

Application Procedure

SPECIFICS

- Awards will be based on a two-page proposal
- Proposals shall describe the faculty team and plan for integration into the undergraduate curriculum
- Proposals should include plans for participation in the ASM Undergraduate Design Competition

PARTICIPATION AND ELIGIBILITY

- Proposals may be submitted by U.S. departments from ***any undergraduate university engineering program*** (e.g., materials science and engineering, metallurgy, metallurgical engineering, ceramic engineering, and polymer engineering, or related programs, including but not limited to mechanical, chemical, electrical, or bio-engineering) with a materials curriculum.
- **Only one entry may be submitted per university.**

APPLICATION SUBMISSION PROCEDURE

- **COVER PAGE (excluded from the two-page limit):** This should include: 1) Title of proposal 2) Name of institution and department; 3) Correspondence address.
- **STATEMENT FROM THE DEPARTMENT or PROGRAM CHAIR (excluded from the two-page limit):** This letter should endorse the proposal and provide commitment.
- **MAIN BODY (two-page limit):**
 - Executive summary
 - Faculty team and involvement
 - Plan for integration into curriculum
 - Plan for design competition entry – use of computational software not mandatory for the first year after award but is highly encouraged

DEADLINE: **September 30**

A subcommittee of the Action in Education Committee will review the entries and determine the winners.

Submit entries along with supporting documents to:

Jeane Deatherage
Program Coordinator
ASM Materials Education Foundation
Materials Park, OH 44073
Jeane.deatherage@asminternational.org

AWARDS

The winning teams will receive:

Three-year licenses to (a) Thermo-Calc (b) Dictra and (c) Prisma
(Please see specific software and databases info attached.)

ASM Materials Genome Toolkit

Software:

- Thermo-Calc
- DICTRA
- TC-PRISMA
- TQ-Interface
- TC Toolbox for MATLAB
- TC-API
- TC-Python

Databases:

- TCFE + MOBFE (for steels)
- TCAL + MOBAL (for Al-alloys)
- TCNI + MOBNI (for Ni-alloys)
- TCMG + MOBMG (for Mg-alloys)
- TCTI + MOBTI (for Ti/TiAl alloys)
- TCCU +MOBCU (for Cu alloys)
- TCHEA + MOBHEA (for high entropy alloys)

License type will be network license with multiple users (i.e. Academic Network Packages for up to 99 concurrent users for the Software and Databases), and 3-year licenses will be offered as one standardized package. Usage will be subject to the Thermo-Calc Software End User License Agreement.