Application Procedure for the ASM Materials Genome Toolkit Program

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: August 31

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.