CONNECTICUT ACADEMY OF SCIENCE & ENGINEERING
MEMBERSHIP CRITERIA

MEMBERSHIP BYLAWS REQUIREMENTS

Scientists and engineers who work or live in Connecticut may be considered for membership upon FULFILLMENT OF EITHER OR BOTH of the following criteria:

➢ Scientific distinction achieved through significant original contributions in theory or applications.

➢ Unusual accomplishments in the pioneering of new and developing fields of applied science and technology.

Candidates for membership should be recognized by associates for professional integrity, as well as for accomplishments in science or engineering.

MEMBERSHIP REPRESENTATION

The Connecticut Academy of Science and Engineering values diverse and inclusive participation in its membership and activities. The membership shall include a reasonable representation among the broad categories of (1) the physical and mathematical sciences, (2) the biological sciences, (3) the social and behavioral sciences, and (4) engineering, and among those engaged in academic, governmental, and industrial or other private activities regardless of sex or of racial or cultural origin. The Academy's Governing Council and Broadening Participation, Equity, and Inclusion Committee charges its' members and Membership Committee to strive for balance and diversity in the nomination and election of candidates for Academy Membership.

APPLICATION OF MEMBERSHIP CRITERIA FOR NOMINEES FROM INDUSTRY AND GOVERNMENT

At the recommendation of the Membership Committee, the Governing Council of the Academy determined that it would provide the following additional guidance to the membership with regard to applying the membership criteria to nominees for election to the Academy from industry and government (sectors other than academia):

➢ Ability to influence policy in the state in the areas of science, technology, education (math, medicine, science, engineering and technology), public safety, and research and development policy in Connecticut. Individuals involved in the government, and business and industry sectors have a greater tendency to be involved in this type of activity.

➢ Unique knowledge and scientific experience that will be valuable in providing guidance on science and technology issues to the people and to the state of Connecticut, and for the purpose of promoting the application of science and technology to human welfare and economic well-being.

➢ Patents – consideration should be given to a nominee's patent activity.

➢ Public Service – Being elected a member is honorific and as a service-oriented organization, members are asked, as their schedules allow, to provide pro bono service when requested. Consideration should be given to a nominee's involvement in public service.

➢ Technology transfer from university to industry. Technology leadership in developing new products and methods of production and manufacture.

➢ Activities related to creating jobs and economic growth in the fields of science and technology.

➢ Company and industrial organization awards as compared to association awards.

➢ Professional society membership and activity, as well as service on state boards and commissions, and in not-for-profit organizations.

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CONSIDERATIONS FOR DIVERSE AND INCLUSIVE MEMBERSHIP
As you consider nominees, note the following information about the Academy's current membership and that the Academy values diverse and inclusive participation in its membership.

- By Sector: 77% of the Academy's members are primarily affiliated with academia, 21% industry, and 2% government.
- By Sex/Ethnicity/Race*:
  - Male: 81% and Female: 19%
  - Hispanic/Latino 3.73% and Non-Hispanic/Latino: 96.3%
  - American Indian/Alaskan Native 0.62%
  - Asian 14.9%
  - Black/African American 3.1%
  - Native Hawaiian/Other Pacific Islander 0.62%
  - White 82.0%

Data from a Race/Ethnicity/Gender CASE Member Survey conducted in the spring 2019.

For your information, see p. 3 for the list of industries, institutions of higher education (and schools within IHEs), and government agencies with an Academy member. Apologies as this list may have some inaccuracies due to changes in organization or member affiliation, but generally the information provided is accurate. Many of the top industries in Connecticut are not represented on this list, as well as many government agencies and institutions of higher education. Should you have a question about affiliations within the current membership, please contact Terri Clark: tclark@ctcase.org

Please consider nominating an individual that meets the criteria for membership who is outside of your organization. Equally important, also please consider nominees eligible from groups who are underrepresented at the Academy.

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See the following for a list by sector with an Academy member effective 07/01/23.

SECTORS

➢ **NON-PROFIT AND PUBLIC SERVICE**

- Childrens Museum Inc.
- CT Childrens Medical Center
- CT Department of Public Health
- CT Agricultural Experiment Station
- CT Center for Advanced Technology
- Rothberg Institute for Childhood Diseases
- The Jackson Laboratory
- VA Connecticut Healthcare
- US Coast Guard Academy
- Yale-New Haven Hospital

➢ **INDUSTRY**

- AbiologicsB
- Alphina Therapeutics
- Arivinas
- Auregen BioTherapeutics
- Biohaven Pharmaceuticals
- CHA Consulting, Inc.
- Coherent
- Collins Aerospace
- Danbury Mission Technologies
- Applied Physical Sciences, General Dynamics
- Electric Boat, General Dynamics
- Elemental Cognition
- Eversource
- Google/You Tube, Public Health
- Halda Therapeutics
- HyAxiom (formerly Doosan Fuel)
- IMCORP
- IBM and IBM Watson Research Center
- Isoplexis
- Lumentum
- Mega
- Pfizer
- Pitney Bowes
- Pratt & Whitney
- Quantum Circuits Inc.
- Quantum-SI
- Quercus Molecular Design
- R&D Dynamics Corporation
- Raytheon Technologies
- Raytheon Technologies Research Center
- Sikorsky, a Lockheed Martin Co.
- Sonics & Materials
- TRC Companies
- Zygo Corporation

➢ **INSTITUTIONS OF HIGHER EDUCATION**

- Connecticut College
- Fairfield University
- Southern CT State University
- Trinity College
- University of Connecticut
- University of Hartford
- University of New Haven
- Wesleyan University
- Yale University