

# *State of Connecticut*



**2022**

## **MEDAL OF TECHNOLOGY**

**CALL FOR NOMINATIONS**

**DUE DATE: MARCH 14, 2022**

**CONNECTICUT ACADEMY OF SCIENCE AND ENGINEERING**

**The Medal of Technology is Connecticut's highest honor for technological achievement in fields crucial to Connecticut's economic competitiveness.**

Modeled after the National Medal of Technology and Innovation, this award is bestowed on behalf of the state of Connecticut in alternate years with the Connecticut Medal of Science.

To date, Connecticut Medalists are:

- H. Joseph Gerber, Medal of Technology
- Frederick M. Richards, Medal of Science
- Charles H. Kaman, Medal of Technology
- Ronald R. Coifman, Medal of Science
- Anthony J. DeMaria, Medal of Technology
- William C. Stwalley, Medal of Science
- Gene Banucci, Medal of Technology
- Michael P. Snyder, Medal of Science
- Tso-Ping Ma, Medal of Technology
- Robert R. Birge, Medal of Science
- Jonathan M. Rothberg, Medal of Technology
- Steven L. Suib, Medal of Science
- Yaakov Bar-Shalom, Medal of Technology
- Thomas A. Steitz, Medal of Science
- Frederick J. Leonberger, Medal of Technology
- Joan A. Steitz, Medal of Science
- Cato T. Laurencin, Medal of Technology
- Robert Schoelkopf, Medal of Science
- Pratt & Whitney, Medal of Technology
- Pasko Rakic, Medal of Science
- Sikorsky, a Lockheed Martin Company, Medal of Technology
- Nancy H. Ruddle, Medal of Science

The 2022 Medal of Technology will be presented on May 26, 2022, at the 47<sup>th</sup> Annual Meeting (to be held virtually) of the Connecticut Academy of Science and Engineering. Selection of the Medalist is conducted by the Connecticut Academy of Science and Engineering on behalf of the Office of the Governor using the following Nomination Guidelines that describe nominee eligibility and selection criteria.

## **NOMINATION GUIDELINES**

The Connecticut Medal of Technology is awarded to individuals, teams, and companies/non-profits or divisions of companies/non-profits for their outstanding contributions to the economic, environmental and social well-being of Connecticut and the nation through the promotion of technology, technological innovation, or the development of the technological workforce; **two medals will be awarded in 2022, with one medal awarded to an individual and one awarded to a team, company/non-profit or divisions of companies/non-profits.** By highlighting the importance of technological innovation, the Medal also seeks to inspire future generations to prepare for and pursue technical careers to keep Connecticut and the nation at the forefront of global technology and economic leadership.

### **ELIGIBILITY**

Nominations for the Connecticut Medal of Technology can be made for an individual, a team, or a company/non-profit or a division of a company/non-profit.

- In the case of an individual or a team, a significant portion of the candidate's work must have been performed in, or be associated with, an institution/organization/business located in Connecticut (*at least in its more mature and developed stage*) and during which time the candidate must have been a citizen of the United States or a permanent resident who has applied for citizenship.
- In the case of a company/non-profit or a division of a company/non-profit, the candidate company/non-profit or division of a company/non-profit must be in Connecticut. Additionally, a majority of the team members must be located in Connecticut and the work (*at least in its more mature and developed stage*) must have been performed in Connecticut.

### **SELECTION CRITERIA**

The Connecticut Medal of Technology is awarded to individuals, teams, and companies/non-profits, or divisions of companies/non-profits deserving of special recognition for outstanding contributions to the economic, environmental, and social well-being through the development and commercialization of technology products,

processes and concepts; technological innovation, or through the development of technological manpower (*workforce*).

Each nomination is evaluated for outstanding contribution to: the promotion of technology; technological innovation; or the development of technological manpower in these three areas based on one of three tailored sets of criteria for:

1. individual and team nominations for the promotion of technology, or for technological innovation, which can include products, processes, and concepts;
2. company/non-profit and division of company/non-profit nominations for the promotion of technology, or for technological innovation, which can include products, processes, and concepts; or
3. individual, team, and company/non-profit or division of company/non-profit nominations for the promotion of technological manpower (*workforce*).

Nominations should provide detailed information on the nominee's contributions in terms of the applicable criteria as follows:

**1. For Individual or Team:  
Promotion of Technology or Technological Innovation**

An individual or team nomination for the promotion of technology, or for technological innovation, is evaluated for the individual's or team's contributions to the improvement of the economic, environmental, and social well-being, and for the challenges faced and overcome.

**Economic contributions** considered, but not limited to: importance and breadth of penetration of the technology, process or concept, including the number of industries/sectors benefited and the depth of influence in one or more industries/sectors; revenues; exports; job creation/wages; contribution to economic growth, productivity, and competitiveness; importance of patents, copyrights, and other intellectual property; and business formation.

**Environmental contributions** considered, but not limited to: environmental stewardship; reduction/remediation/prevention of pollution (*air, bodies of water, soil, drinking water, noise*); conservation; recycling and waste reduction; global climate change; biodiversity; and sustainable development.

**Contributions to social well-being** considered, but not limited to: prestige and leadership; human health; safety and security (*personal, homeland, and defense*); education, training, and enlightenment; communication and social cohesiveness; personal productivity and life management; enhanced human performance; greater personal time and leisure activities; and economic opportunity.

In addition, a nomination may be evaluated in terms of the **challenges – technological, commercial, competitive, societal, and time – faced and overcome**, including, but not limited to: the vision that was created; development and execution of a plan, including degree of vision, persistence, risk-taking, and barriers overcome; evidence of outstanding achievement and/or entrepreneurial, organizational, or managerial skills demonstrated relevant to the achievement; degree of technical challenge; degree of commercialization challenge; and technical novelty.

**2. For Company/Non-Profit or Division of Company/Non-Profit:  
Promotion of Technology or Technological Innovation**

A nomination of a company/non-profit or a division of a company/non-profit for the promotion of technology, or for technological innovation, is evaluated for the organization's or division's contribution to the improvement of the economic, environmental, and social well-being, and for the challenges faced and overcome.

**Economic contributions** considered, but not limited to: importance and breadth of penetration of the technology, process or concept, including the number of industries/sectors benefited and the depth of influence in one or more industries/sectors; revenues; exports; job creation/wages; contribution to economic growth, productivity, and competitiveness; importance of patents, copyrights, and other intellectual property; and business formation.

**Environmental contributions** considered, but not limited to: environmental stewardship; reduction/remediation/prevention of pollution (*air, bodies of water, soil, drinking water, noise*); conservation; recycling and waste reduction; global climate change; biodiversity; and sustainable development.

**Contributions to social well-being** considered, but not limited to: prestige and leadership; human health; safety and security (personal, homeland, and defense); education, training, and enlightenment; communication and social cohesiveness; personal productivity and life management; enhanced human performance; greater personal time and leisure activities; and economic opportunity.

In addition, a nomination may be evaluated in terms of the **challenges – technological, commercial, competitive, societal, and time – faced and overcome**, including, but not limited to: the vision that was created; development and execution of a plan, including degree of vision, persistence, risk-taking, and barriers overcome; degree of technical challenge; degree of commercialization challenge; technical novelty; and development of an organizational culture and/or structure capable of germinating and nurturing repeated technological achievement and commercial success, including elements such as management leadership, strong and sustained human resources development, technology strategy and technology management linked to organizational strategy, an environment conducive to teamwork and cross-functional communications, customer orientation, and manufacturing flexibility and excellence.

### **3. For Individual, Team, Company/Non-Profit or Division of Company/Non-Profit: Development of Technological Manpower (Workforce)**

A nomination for contribution to the development of technological manpower is evaluated for the nominee's (individual, team, company/non-profit or division of company/non-profit) contribution to the improvement of the economic and social well-being, and for the challenges faced and overcome.

**Economic contributions** considered, but not limited to: increasing the supply of technological manpower in response to market demands; improving the knowledge and effectiveness of technological manpower; rapid development and scale-up of education and training to meet the technological manpower demands generated by emerging technologies; business formation resulting from the development of technological manpower; expanded access to education and training resulting in an increase in the supply and effectiveness of technological manpower; improving market responses to market demands for technological manpower, including better data, information, analysis, public awareness, and communication among stakeholders; and improving ability to attract and retain commercial activity in Connecticut as a result of improving the nation's technological manpower.

**Contributions to social well-being** considered, but not limited to increasing diversity of the technological manpower, and improvements in K-12 student performance in science, mathematics, and technology.

In addition, a nomination may be evaluated in terms of the **challenges faced and overcome**, including but not limited to the magnitude of social, economic, institutional, and time challenges in improving the number, knowledge and effectiveness of the technological manpower.

## INSTRUCTIONS

Nominations must be submitted via email using the fillable ONLINE MEDAL NOMINATION FORM with letters of recommendation/support included as attachments. The following is a summary of the required nomination information.

- I. **General Information:** Identification of the nominee including selection of the nomination category – individual, team, or company/non-profit (or division thereof)
- II. **Summary of Nominee’s Contribution/Achievement**
  1. PROPOSED CITATION FOR CONTRIBUTION/ACHIEVEMENT (Limit 1-2 sentences/50 words). The citation should be a concise statement that highlights the nominee’s key contribution/achievement. Note: The nominee’s accomplishments should be more fully described in the Comprehensive Narrative Description.
  2. COMPREHENSIVE NARRATIVE DESCRIPTION OF CONTRIBUTION/ACHIEVEMENT, INCLUDING A CLEAR DEMONSTRATION OF ASSOCIATION WITH CONNECTICUT (Limit 2,000 words, using 12-point type).
- III. **Nominee Biographical Information**
  1. LIST OF AWARDS AND HONORS THE NOMINEE HAS RECEIVED (Limit to 10)
  2. PATENTS AND PUBLICATIONS (Limit to 10 each for patents and publications). Provide a brief summary of the importance of each publication and/or patent listed to provide added-value for consideration of the Nominee
  3. COPYRIGHTS AND TRADEMARKS (Limit to 10). Provide a brief summary of the importance of each copyright or trademark listed to provide added-value for consideration of the Nominee
  4. **FOR INDIVIDUALS OR TEAMS:** EMPLOYMENT HISTORY (No more than 10 years required). Chronologically list career positions – starting from the present –with dates, title, department, organization
  5. **FOR TEAMS:** EXPLAIN THE RELATIONSHIP AMONG TEAM MEMBERS
  6. **FOR COMPANIES/NON-PROFITS or DIVISIONS OF COMPANIES/NON-PROFITS:** PROVIDE INSTITUTIONAL HISTORY, INCLUDING INSTITUTIONAL HISTORY RELATED TO THIS NOMINATION
- IV. **Nominator Information:** Includes identification of the nominator and a statement describing the nominator’s relationship to the nominee and contribution/achievement
- V. **Recommendations**
  - Three letters of recommendation from individuals (other than the nominator) who have first-hand knowledge of the cited achievement(s)
  - Includes identification of the individual providing each letter of recommendation/support and a statement describing the individual’s affiliation with the nominee
  - Format: Electronic Microsoft Word or PDF file
  - Letters of Recommendation must be submitted as attachments with the Nomination Form
  - File Naming Protocol: Last Name of Nominee, First Initial of Nominee-REC-Last Name of Person Writing Letter (For example: Doe, J-REC-Smith)
- VI. **Compliance with Program Terms:** Provides for the nominator to consent to the public disclosure of nomination information or to restrict disclosure of certain nomination information specified by the nominator.

**NOMINATIONS ARE DUE NO LATER THAN 4PM EASTERN TIME ON MARCH 14, 2022.** Nominations should be submitted electronically to Terri Clark, Executive Director, Connecticut Academy of Science and Engineering, [tclark@ctcase.org](mailto:tclark@ctcase.org).

For questions or additional information, contact: Terri Clark, Executive Director, Connecticut Academy of Science and Engineering, 860-282-4229, 860-754-8191 (cell - preferred), [tclark@ctcase.org](mailto:tclark@ctcase.org)