

The National Reconnaissance Office  
BPO/CSNR is now accepting 2022 PIONEER NOMINATIONS



The National Reconnaissance Pioneer Program recognizes and honors individuals who have made significant and lasting contributions to national reconnaissance-pioneering contributions that were innovative, remarkable, and changed the direction and scope of the discipline and its practice. Each year, the DNRO selects and recognizes very few individuals as Pioneers of National Reconnaissance. As of 2021, there have been 99 Pioneers who have been recognized and inducted. It is the highest honor in the field of national reconnaissance.

You can submit Nomination Form with BIO or RESUME (in NRO Format) to email: CSNR@nro.mil. Deadline for NOMINATIONS is 15 November 2022.

Fact Sheet and Selection Criteria Checklist gives an overview regarding nomination specifications.

Any U.S. citizen (federal employee, private sector employee, retired person, or other private citizen) may initiate and nominate individuals as candidates for consideration for selection as a Pioneer of National Reconnaissance.

**Eligibility:** The following category of individuals, whether U.S. or foreign nationals, in active or retired status, living or deceased, are eligible to be designated as Pioneer of National Reconnaissance:

- 1) Federal civilian employees (not limited to NRO employment);
- 2) Military personnel (not limited to assignment to the NRO);
- 3) Contractor and industry employees; and
- 4) Members of the academic and research communities.

The following individuals (whom DNRO has previously recognized) are ineligible to be designated as Pioneers of National Reconnaissance:

- 1) Former DNROs, Principal Deputy Directors (PDDs), Deputy Directors (DDs);
- 2) Directors of the former NRO alphabetic programs;
- 3) Founders of National Reconnaissance; and
- 4) Previously inducted Pioneers of National Reconnaissance.

For more information - visit:

[www.nro.gov/History-and-Studies/Center-for-the-Study-of-National-Reconnaissance/Leaders-Pioneers-Artifacts/](http://www.nro.gov/History-and-Studies/Center-for-the-Study-of-National-Reconnaissance/Leaders-Pioneers-Artifacts/)

Classify appropriately when filled in

PIONEER RECOGNITION NOMINATION

(Advancing National Reconnaissance by Recognizing Innovative & Pioneering Contributions in Our Heritage)

I. IDENTIFICATION OF NOMINEE (\*Denotes required field)

1. Full Name: \_\_\_\_\_ 2.  Living  Deceased
3. Date of Birth: \_\_\_\_\_ 4. Place of Birth: \_\_\_\_\_
5. Period of career in National Reconnaissance: \_\_\_\_\_ To: \_\_\_\_\_
6. Organizational Affiliations during National Reconnaissance career: \_\_\_\_\_
7. Current Employment Status:  Full-Time  Part-Time  Retired
8. Current Employer (if employed): \_\_\_\_\_
9. Education (degree and school): \_\_\_\_\_
10. Contact Information (if deceased, name, relationship, and contact information for next of kin):
a. Street \*: \_\_\_\_\_
b. City \*: \_\_\_\_\_ c. State \*: \_\_\_\_\_ d. Zip code \*: \_\_\_\_\_
e. Personal Telephone \*: \_\_\_\_\_ f. Unsecure Work Telephone: \_\_\_\_\_
g. Personal Email: \_\_\_\_\_

II. SPECIFICATION OF INNOVATIVE PIONEERING CONTRIBUTION

1. Specific Innovative Pioneering contribution: \_\_\_\_\_
2. Date of Innovative Pioneering contribution: \_\_\_\_\_
3. Organizational affiliation while making Pioneering contribution: \_\_\_\_\_
4. Position served in organization while making Pioneering contribution: \_\_\_\_\_
5. Grade or rank while making Pioneering contribution: \_\_\_\_\_

III. NOMINATOR INFORMATION

1. Nominator's Name: \_\_\_\_\_
2. Contact Information:
a. Street: \_\_\_\_\_
b. City: \_\_\_\_\_ c. State: \_\_\_\_\_ d. Zip code: \_\_\_\_\_
e. Personal Telephone: \_\_\_\_\_ f. Unsecure Work Telephone: \_\_\_\_\_
g. Personal Email: \_\_\_\_\_

PRIVACY ACT STATEMENT

Authority: 5 U.S.C. 301, "Departmental Regulations"; National Security Act of 1947, as amended, 50 U.S.C. 401 et seq., "Congressional declaration of purpose"; E.O. 9397, "Federal Agency Use of Social Security Numbers"; and E.O. 12333, as amended, "United States Intelligence Activities."
Purpose(s): This information will be used to manage, supervise, and administer NRO personnel support programs relating to personnel management, official travel, timecards and leave records, awards, training, loan of property, security, emergency recall rosters and contact information; to support organizational and personnel reporting requirements; to support organizational and strategic planning and workforce modeling; to support workplace violence protection programs; to support diversity initiatives; and to respond to personnel or related tasks.
Routine uses: In addition to the statutory disclosures permitted under 5 U.S.C. 552a(b) of the Privacy Act, under QNRO-24 these records may specifically be disclosed outside the NRO as a routine use pursuant to 5 U.S.C. 552a(b)(3). Disclosures may be pursuant to DoD 'Blanket Routines Uses' published in the Federal Register at the beginning of the NRO compilation of systems of records notices.
Disclosures: Disclosure of information is voluntary; however, failure to provide complete information may delay processing of the form.

CL BY:

DRV FROM:

DECL ON:

N12-53, Aug 2022

For assistance with this form, contact NRO Forms

**PIONEER RECOGNITION PROGRAM NOMINATION**

**IV. EXPLANATION OF NOMINEE'S INNOVATIVE PIONEERING CONTRIBUTION**

*(You must adhere to the specified word limit per category. The total length may not exceed one single-spaced page.)*

1. Complete the sentence and paragraph by specifying the nominee's Innovative Pioneering contribution national reconnaissance:

**The nominee pioneered:** (125 words)

2. Describe the complexity and challenges the nominee faced while making the Pioneering contribution: (150 Words)

3. Relate the nominee's Innovative and Pioneering contribution to the Selection Criteria: (See Pioneer Program Fact Sheet) (150 Words)

4. Suggest an unclassified citation that could be displayed on a medallion in the Pioneer Hall. The citation should identify the nominee's Pioneering contribution and explain how it changed the scope and direction of National Reconnaissance. The citation must begin with the phrase: "[insert honorific title and name] pioneered..." (50 words)

**5. NOTE: YOU MUST ATTACH A ONE PAGE BIO OR RESUME IN NRO FORMAT FOR YOUR NOMINATION TO BE CONSIDERED.**

CL BY:

DRV FROM:

DECL ON:

**PIONEER RECOGNITION NOMINATION (Instructions)**

**General Instructions**

*The purpose of this history and heritage recognition program is to advance the discipline of national reconnaissance by recognizing innovative and pioneering contributions that are part of the legacy of national reconnaissance, but can offer insight, lessons, and models of success for current and future challenges. Be specific (while observing security classification rules). The more precise and complete the narrative, the more competitive the nomination will be.*

*After an initial review, the Pioneer Selection Board will identify a subset of nominees for further consideration. The Pioneer Selection Board will request in-depth additional explanations of those nominees' innovative, pioneering contributions from responsible nominators.*

**Specific Instructions for Section I, Item 6**

*"Affiliation" refers to the nominee's parent employment organization (e.g. CIA, Air Force, Navy, Specific Industry Company, etc.) If known, identify the specific component/office in which the nominee worked when he/she made this contribution.*

**Specific Instructions for Section I, Item 10 a-f**

*These fields must be completed, otherwise the nomination will not be processed.*

**Specific Instructions for Section IV**

*You must adhere to the word limit indicated for each category. Your **description** of the nominee's contribution should not exceed one, single-spaced typewritten page. In addition, a bio and/or resume must be attached to this nomination form in order for the nomination to be considered.*

**Security**

*If you complete this form in a non-secure classification area, all information must be UNCLASSIFIED. Be sure to indicate the classification level of your nomination at the top and bottom of each page.*

**Questions**

*If you have questions about this form or the Pioneer Recognition Program, please contact the Center for the Study of National Reconnaissance (CSNR), by calling either the Chief/Recognition, Exhibits, & Outreach (REO/CSNR) at 703-227-9061 or the CSNR Front Office at 703-227-9368. You may also send an email to CSNR@nro.mil*

**Submission**

*Use the address below for UNCLASSIFIED MAILING ONLY. You must submit any classified nominations via secure channels.*

*Director, National Reconnaissance Office  
Center for the Study of National Reconnaissance  
Office of Business Plans and Operations  
Attn: Executive Secretary, Pioneer Selection Board  
14675 Lee Road  
Chantilly, VA 20151-1715*

*Fax (U) 703-227-9073  
Fax (S) 703-227-9375*



## CENTER FOR THE STUDY OF NATIONAL RECONNAISSANCE

### Fact Sheet

### Pioneer Recognition & Research Program

#### Overview

The Pioneer Recognition & Research Program is an NRO Heritage recognition program that supports (1) a strong research-based activity that documents NRO's heritage and identifies lessons; (2) informs NRO leadership and workforce on lessons for pioneering innovations; (3) recognizes and pays tribute to models of excellence in innovation to inspire and motivate; (4) advances national reconnaissance with insights into pioneering innovation; and (5) increases knowledge of national reconnaissance so as to improve planning and execution of the NRO mission.

A Pioneer of National Reconnaissance is an individual who, at any point in the history of national reconnaissance, made an innovative break through that resulted in a lasting and significant contribution that changed the direction or scope of the discipline. Each year, the Director, National Reconnaissance Office (DNRO) selects and recognizes a very few individuals as Pioneers of National Reconnaissance.

#### Eligibility

Persons of all organizational affiliations and status are eligible for nomination as Pioneers. Nominees may be living or deceased, currently working in the field of national reconnaissance or retired, government employees (military or civilian) or from the private sector (contractor or academic personnel). Four groups of individuals are ineligible for nomination because of prior recognition: (1) previously recognized pioneers, (2) Founders of National Reconnaissance, (3) Legacy Alphabetic Program Directors, and (4) Directors/Deputy Directors of the NRO. (See the reverse side of this Fact Sheet for the names of these previously recognized individuals.)

#### Nominations

Anyone may nominate an individual as a candidate for Pioneer selection. Nominations must include the identification of the specific technical, programmatic, and/or system contribution for which the individual is being nominated. The Pioneer Selection Board applies a time-test for historical impact to the contributions and achievements of Pioneer nominees, and often will defer consideration of nominees whose contributions and achievements occurred within the past five years.

#### Selection Criteria

While many individuals have made important contributions to national reconnaissance, recognition as a Pioneer of National Reconnaissance requires: (a) the accomplishment of a specific pioneering innovative breakthrough of lasting impact. A summary of the selection criteria are (See Pioneer Selection Criteria Checklist for more details):

- *Relevance*—Contribution must have been directly related to the discipline and practice of national reconnaissance (e.g., conceiving and developing sensors or supporting systems; conceiving and developing techniques and methods for national reconnaissance; conceiving and developing acquisition, contracting, or security innovation; leading or managing fabrication or operation of systems).
- *Innovative and Pivotal*—Contribution must have been an innovative and pivotal so as to have changed the direction and scope of the discipline and practice of national reconnaissance.
- *Unique*—Contribution must have been unique in that it was a “first and only” breakthrough.
- *Time Tested*—Contribution must have demonstrated its value by being “time-tested” for its historical impact (generally at least over a five-year period).

Pioneer recognition is for specific innovative pioneering contributions that impacted on the heritage of national reconnaissance. Those activities that place performance outside that context are disqualifiers:

- *Awarding government personnel general performance*—Justifications that are for customary outstanding performance, such as sustained high performance and life-time achievement would disqualify the nomination, for which human resources awards and recognition programs are more appropriate.
- *Contract performance*—Recognition in connection with a contract award fee or performance in connection with current contract work would disqualify a nomination, for which there are contracting mechanisms.

**Contact Information:** For more information about the Pioneer Recognition & Research Program, please contact the Chief/Recognition, Exhibits, and Outreach/Center for the Study of National Reconnaissance (CSNR) at 703-227-9061 or the CSNR Front Office at 703-227-9368, [CSNR@nro.mil](mailto:CSNR@nro.mil)

## Pioneers of National Reconnaissance (99 Pioneers)

Raymond E. Anderson (2008)  
M. Sam Araki (2004)  
James G. Baker (2000)  
Timothy J. Barnes (2017)  
C. Lee Battle, Jr. (2000)  
John T. Bennett (2000)  
Thomas A. Brackey (2011)  
Howard G. Brotherton (2008)  
John W. Browning (2000)  
Jon H. Bryson (2000)  
A. Roy Burks (2000)  
Frank S. Buzard (2000)  
James P. Campbell (2009)  
Cornelius W. Chambers (2000)  
Ingard M. Clausen (2006)  
Vance D. Coffman (2002)  
Harvey Cohen (2004)  
Lacy G. Cook (2009)  
John O. Copley (2000)  
Donald L. Cromer (2001)  
Robert H. Crotser (2000)  
John J. Crowley (2000)  
Rod J. Dallaire (2020)  
L. Porter Davis (2015)  
James C. de Broekert (2000)  
Paul S. Demshur (2021)  
Robert H. Dumais (2010)  
Joseph T. Eash (2011)  
Robert E. Eisenhauer (2005)  
Carl L. Ferdensi, Jr. (2003)  
Thomas C. Fitzsimmons (2014)  
Gary S. Geyer (2000)  
Jack A. Gibbs (2010)

Thomas O. Haig (2000)  
Lee M. Hammarstrom (2002)  
Fred V. Hellrich (2006)  
A.J. Iorillo (2001)  
Robert Kaemmerer (2004)  
Paul G. Kaminski (2007)  
Frederick H. Kaufman (2000)  
David L. Klinger (2006)  
Robert J. Kohler (2000)  
Ellis E. Lapin (2000)  
Lloyd K. Lauderdale (2000)  
Richard S. Leghorn (2000)  
Walter J. Levison (2000)  
Howard O. Lorenzen (2000)  
Frank J. Madden (2000)  
Mahen Jr., Edward C. (2018)  
Michael F. Maguire (2009)  
James T. Mannen (2000)  
Roger C. Marsh (2005)  
Paul W. Mayhew (2000)  
Reid D. Mayo (2000)  
James W. McAnally (2004)  
Edward A. Miller (2005)  
William G. Montgomery (2013)  
James E. Morgan (2000)  
Mark N. Morton (2000)  
Alden V. Munson, Jr. (2000)  
Charles L. Murphy (2000)  
Frederic C.E. Oder (2000)  
Robert F. O'Donnell (2012)  
Hilliard W. Paige (2008)  
John Parangosky (2000)  
Michael N. Parker (2011)

Robert L. Paulson (2002)  
Julius P. Peline (2000)  
Robert M. Powell (2000)  
Michael G. Price (2020)  
Wayne L. Proffitt (2005)  
Richard J. Randazzo (2010)  
David Raspet (2003)  
Edward H. Reese (2000)  
Thomas R. Reinehr (2016)  
Kerry D. Rines (2021)  
Osmond J. Ritland (2000)  
Lee W. Roberts (2000)  
Vincent S. Rose (2001)  
Charles R. Roth (2000)  
Robert W. Roy (2000)  
John Shipley (2011)  
Donald N. Simkins (2013)  
Charles P. Spoelhof (2000)  
Staubach, Carol A. (2019)  
John R. Stavlo (2014)  
Forrest H. Stieg (2000)  
Marvin S. Stone (2000)  
James W. Stoner (2003)  
Don F. Tang (2000)  
Charles C. Tevis (2003)  
Richard C. Van Wagoner (2011)  
John Walton (2001)  
Albert D. Wheelon (2000)  
Peter G. Wilhelm (2000)  
Sun Yet Wong (2007)  
Jane A. Wood (2006)  
Roy H. Worthington (2000)  
Robert W. Yundt (2000)

## Founders of National Reconnaissance (11 Founders)

William O. Baker (2000)  
Merton E. Davies (2000)  
Sidney D. Drell (2000)  
Richard L. Garwin (2000)

Jimmie D. Hill (2012)  
Amrom H. Katz (2000)  
James R. Killian, Jr. (2000)  
Edwin H. Land (2000)

Frank W. Lehan (2000)  
William J. Perry (2000)  
Edward M. Purcell (2000)

## Legacy Alphabetic Program Directors

Lew Allen, Jr. (Program A)  
Bernard L. Bailey (Program D)  
Thomas C. Betterton (Program C)  
David D. Bradburn (Program A)  
Dennis M. Brooks (Program C)  
Julian Caballero, Jr. (Program B)  
Robert T. Darcy (Program C)  
Leslie C. Dirks (Program B)  
Carl E. Duckett (Program B)  
Eugene B. Fluckey (Program C)

Leo Geary (Program D)  
Robert K. Geiger (Program C)  
Robert E. Greer (Program A)  
Frederick J. Harlfinger, II (Prog C)  
Frank W. Hartley, Jr. (Program D)  
R. Evans Hineman (Program B)  
Ralph H. Jacobson (Program A)  
William G. King (Program A)  
John E. Kulpa, Jr. (Program A)  
Jack C. Ledford (Program B)

Nathan J. Lindsay (Program A)  
Vernon L. Lowrance (Program C)  
John L. Martin, Jr. (Program A)  
Lee Roy Patterson (Program C)  
Clason B. Saunders (Program D)  
Herbert Scoville, Jr. (Program B)  
Huntington D. Sheldon (Prog B)  
Jay W. Sprague (Program C)  
Rufus L. Taylor (Program C)  
Grover M. Yowell (Program C)

## DNROs, PDDNROs, and DDNROs of National Reconnaissance

Edward C. Aldridge, Jr. (DNRO)  
Mark Baird (DDNRO)  
Richard M. Bissell, Jr. (DNRO)  
Frank Calvelli (PDDNRO)  
Bruce Carlson (DNRO)  
Joseph V. Charyk (DNRO)  
Charles W. Cook (DDNRO)  
Anthony J. Cotton (DDNRO)  
Stephen Denker (DDNRO)  
Martin C. Faga (DNRO)  
Dennis Fitzgerald (PDDNRO)  
Alexander H. Flax (DNRO)  
Michael A. Guetlein (DDNRO)  
Donald L. Haas (DDNRO)

Keith R. Hall (DDNRO, DNRO)  
Ralph S. Haller (PDDNRO)  
Jeffrey K. Harris (DNRO)  
Robert J. Hermann (DNRO)  
Jimmie D. Hill (DDNRO)  
Donald M. Kerr (DNRO)  
Eugene P. Kiefer (DDNRO)  
David Kier (DDNRO)  
Scott F. Large (PDDNRO, DNRO)  
Hans Mark (DNRO)  
Susan K. Mashiko (DDNRO)  
Troy E. Meink (PDDNRO)  
John L. McLucas (DNRO)  
Brockway McMillan (DNRO)

F. Robert Naka (DDNRO)  
Ellen M. Pawlikowski (DDNRO)  
James W. Plummer (DNRO)  
James Q. Reber (DDNRO)  
Thomas C. Reed (DNRO)  
Betty J. Sapp (PDDNRO, DNRO)  
Christopher J. Scolese (DNRO)  
John T. Sheridan (DDNRO)  
Donna D. Shipton (DDNRO)  
Robert D. Singel (DDNRO)  
Peter B. Teets (DNRO)





## CENTER FOR THE STUDY OF NATIONAL RECONNAISSANCE (CSNR) Selection Criteria Checklist Pioneers of National Reconnaissance

**Overview.** The spirit and direction of the Nation are founded upon and reflected in its historic heritage, and the Congress and President have declared that the historical and cultural foundations of the Nation should be preserved as a living part of our community life and development in order to give a sense of orientation to the American people. The selection criteria for Pioneers of National Reconnaissance support this objective.

Pioneers are to be selected as a means to ensure that the vital legacy of the cultural, educational, aesthetic, inspirational, economic, and energy benefits derived from their contributions to the discipline of national reconnaissance will be maintained and enriched for future generations of Americans.

**Qualifying Factors.** In administering the historic resources of national reconnaissance in a spirit of stewardship for the inspiration and benefit of present and future generations, the National Reconnaissance Office (NRO) selects Pioneers of National Reconnaissance based on five qualifying criteria that reflect the degree to which the individuals' contributions to the discipline of national reconnaissance are: (1) relevant, (2) innovative and pivotal, (3) unique, and (4) time-tested.

1. *Relevant.* The pioneering contribution must be relevant by being directly related to the discipline and practice of national reconnaissance. National reconnaissance is defined as technical intelligence collection funded by the National Reconnaissance Program and carried out by the NRO under its mission to conduct research, development, acquisition, launch, and operation of overhead reconnaissance systems and other activities as directed, to include NRO communications infrastructure. National reconnaissance activities include, but may not be limited to:
  - a. Conceiving and planning, or successfully developing a sensor, an aerial or satellite system, a communication system, or an orbital application that greatly improved overhead intelligence collection.
  - b. Organizing, leading, or successfully managing the teams that designed, fabricated, launched, or operated a new and complex reconnaissance system that greatly improved national reconnaissance intelligence collection.
  - c. Conceiving and planning, or successfully developing a new technique, procedure, or method that greatly improved the evaluation, interpretation, cryptanalysis, information processing, or dissemination of information collected by national reconnaissance systems.

- d. Conceiving and planning, or successfully developing a new acquisition technique, contracting procedure, or security measures that greatly benefited the government in the procurement and operation of national reconnaissance systems
2. *Innovative and Pivotal.* The pioneering contribution must have been an innovative and pivotal contribution to the discipline and practice of national reconnaissance. The contribution must have been innovative enough to have changed the direction and scope of conceiving, developing, managing, or operating national reconnaissance activities. It must have made a pivotal change in activities such as: (a) national intelligence collection and analysis; (b) aerospace and reconnaissance technology; (c) reconnaissance-based information operations; or (d) other activities related to the practice and discipline.
3. *Unique.* The pioneering contribution must have been unique in that it was a “first and only” technological breakthrough, idea, concept, or way of doing business.
4. *Time tested.* The contribution must have demonstrated its value by being “time-tested” for its historical impact. It must have had, or demonstrated evidence that it is highly likely to have, a lasting historic impact. It is often difficult to recognize the long-term impact and historical significance of more recent contributions. Because of this, the Pioneer Selection Board will focus on contributions made more than ten years ago and typically defer the consideration of any candidate whose contributions and achievements were made for activities that occurred within the past five years.

**Disqualifying Factors.** Pioneer recognition is for a specific innovative pioneering contribution that has made a major impact on the heritage of national reconnaissance, influencing the present and likely to continue to influence future national reconnaissance activities, and its historical significance has been tested by time. Those factors that place the contribution outside that context are disqualifiers.

1. *Awarding government personnel general performance*—The use of pioneer recognition as a life-time achievement award or human resources awards, such as for sustained superior performance, would disqualify the nomination. The NRO Awards Program and human resources-related awards are for that purpose.
2. *Contract performance* –The use of pioneer recognition in connection with a contract award fee process or other such contract performance awards would disqualify the nomination. Individuals who are employed by Government contractors are ineligible when their contributions are related directly to their current contract work.

