

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Catalin NAE**

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Nationality Romanian

Date of birth August 1, 1963

Gender Male

Work experience

Dates 1988 – 1990

Occupation or position held **CS**, Research scientist

Main activities and responsibilities CFD and flight dynamics

Name and address of employer INCREST - ICSITAv – IMFDZ (Romania)

Type of business or sector Aerospace engineering

Dates 1990 – 1997

Occupation or position held Lecturer

Main activities and responsibilities Lecturer in mechanics and aircraft design

Name and address of employer Univ. Politehnica Bucharest, Aerospace Engineering Dept.

Type of business or sector Aerospace engineering

Dates 1990 – 2000

Occupation or position held **CS-III**, Senior research scientist, **head of CFD Department**

Main activities and responsibilities Project manager

Name and address of employer INCAS - National Institute for Aerospace Research “Elie Carafoli” (Romania)

Type of business or sector Aerospace engineering

Dates 2000 – 2001

Occupation or position held Senior adviser, CFD Department

Main activities and responsibilities Project manager

Name and address of employer FZJ-Forschungszentrum Juelich, Germany

Type of business or sector R&D in physics and life sciences

Dates 2000 – 2007

Occupation or position held **CS-II**, Senior research scientist, **head of Subsonic Wind Tunnel Department**

Main activities and responsibilities Wind Tunnel Manager, Project manager

Name and address of employer INCAS - National Institute for Aerospace Research “Elie Carafoli” (Romania)

Type of business or sector Aerospace engineering

Dates 2007 – present

Occupation or position held **CS-I, INCAS President & CEO**

Main activities and responsibilities President of the Board & CEO of INCAS

Name and address of employer INCAS - National Institute for Aerospace Research “Elie Carafoli” (Romania)

Type of business or sector Aerospace engineering

Education	
Dates	1982 – 1988
Title of qualification awarded	Master in Aerospace Engineering
Principal subjects/occupational skills covered	Flow physics, aircraft design, CFD
Name and type of organisation providing education and training	University Politehnica Bucharest, Aerospace Engineering Dept.
Level in international classification	Master degree
Dates	1990 – 1995
Title of qualification awarded	Master in Mathematics
Principal subjects/occupational skills covered	PDE, Algebra, Numerical simulation, CFD
Name and type of organisation providing education and training	University of Bucharest, Mathematics Dept.
Level in international classification	Master degree
Dates	1992 – 1997
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Aerospace engineering, CFD
Name and type of organisation providing education and training	University Politehnica Bucharest
Level in international classification	PhD Diploma
Dates	1999 – 2000
Title of qualification awarded	Post doc
Principal subjects/occupational skills covered	Aerospace engineering, CFD, active flow control
Name and type of organisation providing education and training	University of Glasgow, Aerospace Engineering Dept.
Level in international classification	Post-doc Diploma
Training	<ul style="list-style-type: none">International Centre for Parliamentary Studies, 2023NATO/DAAD Senior Fellowship in High Performance Supercomputing, Germany, 2002Royal Society Fellowship – UK, 1999Dassault Aviation – France, visiting scientist, 1999von Karman Institute for Fluid Dynamics - Belgium, visiting scientist, 1998INRIA, visiting scientist - France, 1998NASA, visiting scientist, Johnson Space Center, USA, 1996Lean Management in R&D , Univ. Hertfordshire, UK, 2001
Personal skills and competences	
Mother tongue(s)	Romanian
Other language(s)	English, French, German, Italian
Self-assessment	
European level	

<p>Organisational skills and competences</p>	<ul style="list-style-type: none"> • President of the Board and CEO of INCAS - National Institute for Aerospace Research "Elie Carafoli" 2007-2023 • Co-Chair of ACARE – Advisory Council for Aviation Research in Europe 2025 - present • President of EREA (European Research Establishments in Aeronautics Association) 2018-2019 • President of STAI (Supersonic Tunnel Association International) since 2017-2019 • Vice-President of ESRE – European Space Research Establishments Association since 2019 • President of EU Future Sky since 2019 • Vice-President of Governing Board of JTI Clean Sky 1 - 2011 - 2013 • Member of JTI Governing Board Clean Sky 1&2 since 2008 • Member of ACARE Plenary (Advisory Council for Aeronautical Research in EU), since 2006 • Co-Chair of ACARE-IRG (Advisory Council for Aeronautical Research in EU), since 2017 • Member of the Board of ROSA - Romanian Space Agency since 2008 • Director for Advanced Research Center CSA-INCAS since 2004 • Member of CCCDI – Romanian Advisory Council for R&I since 2013 • Romania national expert in PC6/7-Transport/H2020/HE since 2006 • EU FP7/H2020 Rapporteur for “Research for the Benefit of SMEs” • EU FP6/FP7/H2020 expert for Transport (including Aerospace) and ITC from 2007
<p>Project management in EU FP6/FP7/H2020</p>	<p>(funding for INCAS partner contribution)</p> <p>EU FP5 projects</p> <ul style="list-style-type: none"> ▮ EXPRO, STREP (107,500Euro) 2001-2004 <p>EU FP6 projects</p> <ul style="list-style-type: none"> ▮ UFAST - Unsteady Effects in Shock Wave Induced Separation, STREP (657,500Euro) 2005 - 2008 ▮ CESAR - Cost Effective Small Aircraft, IP (1,745,000Euro) 2006 - 2009 ▮ AVERT - Aero Validation of Emission Reducing Technologies, STREP (975,000Euro) 2006 – 2009 <p>EU FP7 projects</p> <ul style="list-style-type: none"> ▮ JTI Clean Sky - SFWA - Smart Fixed Wing Aircraft (18,000,000Euro) 2008 - 2015 ▮ JTI Clean Sky - GRA - Green Regional Aircraft (5,000,000Euro) 2008 - 2015 ▮ ESPOSA - Efficient Systems and Propulsion for Small Aircraft, L2 project (475,000Euro) 2010-2014 ▮ HAIC – High Altitude Icing Crystals, L2 project (1,325,000Euro) 2011 - 2014 ▮ CEARES - (SSA - CA project in FP7) (127,000Euro) 2010 - 2012 ▮ RESTARTS - (SSA - CA project in FP7) (45,700Euro) 2010 - 2012 ▮ SAT –Rdmp - (CSA - SA project in FP7) (27,650Euro) 2009 - 2012 ▮ ATLAS-II – Aero-Thermo Loads on Lightweight Advanced Structures II, (242,330Euro) 2010 - 2014 ▮ AFloNext – "2nd Generation Active Wing" – L2 project in FP7, (1,087,600Euro) 2013 - 2016 ▮ JTI Clean Sky2 – FastRotorcraft IADP- RACER (7,500,000Euro) 2015 – 2020 <p>EU H2020/HE projects</p> <ul style="list-style-type: none"> ▮ Please ask for updates on EU H2020 and EU - HE funded projects
<p>Project management in national PNCD-2/3/4</p>	<ul style="list-style-type: none"> ▮ 10 R&D grants in PNCDI (7 in AEROSPATIAL Program) – Project Manager ▮ 16 R&D grants in PNCD-2,3&4 – Project Manager ▮ 7 R&D grants in STAR Program (2012-2018) – Project Manager ▮ 17 R&D grants in PNCD – WP Leader

Awards and achievements	<ul style="list-style-type: none"> • Member of Académie de l’Air et de l’Espace, 2018 • Ordinul Meritul Cultural in grad de Cavaler, 2008 • AIAA Senior Member, 2022 • DAAD Senior Fellowship award in 2002 • NATO/Royal Society research award in 1999 • ECMI-96 International Award (European Consortium for Mathematics in Industry), 1996 • ICIAM-94 Award in 1995 (Int. Consortium for Industrial and Applied Mathematics), 1995 • “100 for Aviation” Hall of Fame, 2012 • 8 Excellence Awards in Romanian national PNCD/PNCD2 • Third Price at International Olympics in Mathematics for students in 1985 • Romanian National Merit Scholarship 1985-1988
Computer skills and competences	HPC - high performance computing, GRID & CLOUD computing, programming (FORTRAN, C/C++, Java), MS/OpenOffice, Windows/Linux/Unix/...
Annexes	<i>indexed papers and patents (ask)</i>

15.05.2025

Dr. Catalin NAE