

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Catalin NAE**
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Telephone(s) Work : +40 21 4340083
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E-mail cnae@incas.ro
Nationality Romanian
Date of birth
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	<i>Master in Aerospace Engineering</i>
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	<i>Master in Mathematics</i>
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	<i>PhD</i>
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	<i>Post doc</i>
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

- International Centre for Parliamentary Studies, 2023
- NATO/DAAD Senior Fellowship in High Performance Supercomputing, Germany, 2002
- Royal Society Fellowship – UK, 1999
- Dassault Aviation – France, visiting scientist, 1999
- von Karman Institute for Fluid Dynamics - Belgium, visiting scientist, 1998
- INRIA, visiting scientist - France, 1998
- NASA, visiting scientist, Johnson Space Center, USA, 1996
- Lean 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	Understanding		Speaking		Writing
<i>European level</i>	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2
German	B2	C1	B2	B2	B1
Italian	C2	C2	C2	C2	C2

Organisational skills
and competences

- **President of the Board and CEO of INCAS - National Institute for Aerospace Research "Elie Carafoli" since 2007**
- 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

Project management in
EU FP6/FP7/H2020

(funding for INCAS partner contribution)

EU FP5 projects

- ▯ EXPRO, STREP (107,500Euro) 2001-2004

EU FP6 projects

- ▯ 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

EU FP7 projects

- ▯ 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
- ▯ ATLLAS-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

EU H2020/HE projects

- ▯ ***Please ask for updates on EU H2020 and Eu HE funded projects***

Project management in
national PNCD-2/3/4

- ▯ 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>

28.06.2023

Dr. Catalin NAE