Exploratory Research Projects - 2021 Call
project proposal

General Information*

P4 Cercetare fundamentală și de frontieră

PRELIMINARY REGISTRATION CODE
PCE-2021-2566

FINAL REGISTRATION CODE
PN-III-P4-PCE-2021-0642

PROJECT TITLE (ROMANIAN)
De la o metoda promitatoare la o intelegere deplina a reactiilor induse de deuteroni

PROJECT TITLE (ENGLISH)
From a promising method to a deeper understading of deuteron-induced reactions

PROJECT ACRONYM
Protodeep

PROJECT EXECUTIVE SUMMARY (ROMANIAN)
Stadiul reactiilor induse de deuteroni e evidentiat de Cowen et al. (Rev. Mod. Phys. 93, 15002, 2021) prin 'Diferentele dintre rezultatele masuratorilor directe si studiile reactiilor surogat pot reflecta o tratare si separare insuficienta intre diferitele mecanisme de reactie, ca transferul direct si componente-breakup (Avrigeanu and Avrigeanu, 2016). In timp ce aceasta metoda este promitatoare, o intelegere mai buna a mecanismului de reactie pare a fi necesara (Potel, Nunes, and Thompson, 2015).' Astfel sunt evidentiate descrierea IFIN-HH corecta prin atentia acordata breakup-ului (BU) si reactiilor directe (DR) ale deuteronilor, omise anterior, si nivelul teoretic pur ale abordarilor microscopice actuale. Mai mult, in timp ce studii recente au stabilit ca aceste calcule depasesc posibilitatile actuale, sau au folosit un simplu fit al datelor, metoda noastra promitatoare a permis deja o descriere buna a datelor de activare a deuteronilor pentru izotopii stabili ai Al, Cr, Mn, Fe, Co, Ni, Cu, Zr,si Nb. Aprofundarea analizei procesului BU inelastic este intentionata in continuare prin teoria 'eikonal' extinsa si a canalelor cuplate discretizate in continuum (CDCC) la energii superioare parametrizarilor disponibile. Este vizata si o descriere globala a proceselor BU si DR, pe langa mecanismele de emisie la preechilbru (PE) si nucleu compus (CN), urmata de implicarea proceselor BU+DR+PE+CN in cadrul unor coduri de calcul actualizate si utilizari unitare a paramtrilor initiali.

PROJECT EXECUTIVE SUMMARY (ENGLISH)
The status of deuteron-induced reactions is confidently outlined by Cowen et al. (Rev. Mod. Phys. 93, 15002, 2021) as "Deviations between the results of direct measurements and surrogate reaction studies may reflect insufficient treatment and separation between different reaction mechanisms, such as direct transfer and breakup components (Avrigeanu and Avrigeanu, 2016). While this method is promising, a deeper understanding of the reaction mechanism seems to be necessary (Potel, Nunes, and Thompson, 2015)." It is thus noted IFIN-HH proper account by paying due attention to the deuteron breakup (BU) and direct reactions (DR) overlooked previously, and genuine theoretical level of current microscopic approaches. Moreover, while recent basic studies either concluded that numerical calculations for these reactions are beyond current capabilities, or used handy data fit, our promising method already provided a consistent account of available deuteron-activation data for all stable isotopes of Al, Cr, Mn, Fe, Co, Ni, Cu, Zr, and Nb. Further advance is aimed now, too, by analysis of inelastic BU through the extended eikonal theory and Continuum-Discretized Coupled-Channels (CDCC) formalism, at energies above the current parameterizations. An overall account of deuteron BU and DRs is then concerned besides the pre-equilibrium (PE) and compound nucleus (CN) mechanisms, followed by involvement of BU+DR+PE+CN processes within updated computer codes and unitary use of input parameters.

PROJECT DURATION (MONTHS)
33

TOTAL FUNDING REQUESTED (LEI) **
1.200.000,00

TOTAL FUNDING REQUESTED (EUR) **
250.000,00

* All fields are mandatory!
** Automatically calculated from section 2.1 Budget Breakdown per Year

Project Leader and Host Institution

Host Institution

INSTITUTION DETAILS

CUI* 3321234

INSTITUTION NAME*
INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA SI INGINERIE NUCLEARA " HORIA HULUBEI " - IFIN - HH

COUNTRY
Romania

COUNTY*
Ilfov

CITY*
MAGURELE

STREET*
Reactorului

STREET NO.*
30

OTHER ADDRESS DETAILS
-

ZIP CODE*
077125

INSTITUTION TYPE*
INCD

ORGANIZATION TYPE
Research Organization

INSTITUTION WEBSITE*
www.ifin.ro

PROJECT LEADER

UEF-ID BRAINMAP CODE***
U-1700-038D-6430
Marilena Avrigeanu (Boata)
https://www.brainmap.ro/public-profile-82889317

FIRST NAME*
Marilena

LAST (FAMILY) NAME*
Avrigeanu

PREVIOUS LAST NAME
Boata

CNP*
2490720******

BIRTH DATE*
20/07/1949

DOCTOR**
YES, since: 12/08/1983

PHD TITLE OBTAINED IN ROMANIA*
YES

FULL TIME JOB AT THE HOST INSTITUTION*
Yes (employee)

PHONE*
(+4021)4046125

EMAIL*
mavrig@ifin.nipne.ro

* Mandatory fields.
** The project leader must be PhD
*** The updating of the scientific profile in the Brainmap will be ensured

Research Team Members

Member 1

ORGANIZATION
INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA SI INGINERIE NUCLEARA " HORIA HULUBEI " - IFIN - HH

Project Leader from **Section 1.2**

VACANT POSITION** NO

UEFISCDI ID (UEF-ID) DIN BRAINMAP
U-1700-038D-6430
Marilena Avrigeanu (Boata)
https://www.brainmap.ro/public-profile-82889317

ROLE IN PROJECT
Project Leader

FIRST NAME Marilena

FULL TIME PERCENT* (%)** 83

LAST (FAMILY) NAME Avrigeanu

INVOLVEMENT NO. OF HOURS/MONTH* 139

CNP 2490720******

SALARY COSTS** (LEI)
377.441

BIRTH DATE
20/07/1949

Member 4

ORGANIZATION
INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA SI INGINERIE NUCLEARA " HORIA HULUBEI " - IFIN - HH

VACANT POSITION** YES

ROLE IN PROJECT
Master's Student Member

FULL TIME PERCENT*** **(%)** 100

INVOLVEMENT NO. OF HOURS/MONTH* 167

SALARY COSTS**** (LEI)
151.583

UEFISCDI ID (UEF-ID) DIN BRAINMAP
vacant position

FIRST NAME

LAST (FAMILY) NAME

CNP

BIRTH DATE

Research Team Summary (automatically calculated)

No. Crt.	Role in project	Full time percent	Salary costs (LEI)
1	Project Leader	83 %	377.441 LEI
2	Experienced Researcher Member	42 %	198.953 LEI
3	Postdoctoral Member	33 %	92.823 LEI
4	Master's Student Member	100 %	151.583 LEI

TOTAL	258 %	820.800 LEI

* All fields are mandatory, except vacant positions.
** For vacant positions don't fill in First Name, Last Name, CNP, Birth Date.
*** Percent of a full time job. Enter only digits. 100 = full time, 50= half time (50% corresponds to 4 hours/day), an so on, without decimals.
**** Salary costs including contributions, throughout the project. Without decimals.

Project Domains

MAIN DOMAIN **
PE. PHYSICAL SCIENCES AND ENGINEERING

MAIN SUBDOMAIN
PE2. Fundamental Constituents of Matter: Particle, nuclear, plasma, atomic, molecular, gas, and optical physics

MAIN RESEARCH AREA *
PE2_3. Nuclear physics

SECONDARY DOMAIN
PE. PHYSICAL SCIENCES AND ENGINEERING

SECONDARY SUBDOMAIN
PE1. Mathematics: All areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics

SECONDARY RESEARCH AREA *
PE1_18. Scientific computing and data processing

TERTIARY DOMAIN
[Select]

TERTIARY SUBDOMAIN

TERTIARY RESEARCH AREA (OPTIONAL)

Keywords

KEYWORD 1 *

KEYWORD 4 (OPTIONAL)

Nuclear reactions

Direct reactions

KEYWORD 2 *
Deuteron incident particles

KEYWORD 5 (OPTIONAL)
Reaction mechanisms

KEYWORD 3 *
Deuteron breakup

Standarde minimale de eligibilitate pentru directorul de proiect

Domeniu ierarhizare: D04 - Fizică

A. ARTICOLE WEB OF SCIENCE

Publicarea în perioada 2013 - 2021, dar după obţinerea titlului de doctor, ca autor principal (conform Anexei 6), a unor articole în reviste care au fiecare un scor relativ de influenţă **cel puţin egal cu 1** şi al căror scor relativ de influenţă cumulat este **cel puţin egal cu 3**.

Nr. Crt.	Detalii publicație
1	**Data publicării articolului:** 24/04/2014 **Denumirea revistei:** PHYSICAL REVIEW C ISSN: 0556-2813 SRI: 1.135 **Titlul articolului:** Low energy deuteron-induced reactions on Fe isotopes **Accession Number WOS:** 000335499800004 **Nr. total autori:** 10 autori **Autorii articolului:** Marilena Avrigeanu, V. Avrigeanu, P. Bem, U. Fischer, M. Honusek, K. Katovsky, C. Manailescu, J. Mrazek, E. Simeckova, and L. Zavorka **Tip autor:** b) autorul corespondent **Nr. autori corespondenţi:** 1 autor **Document type:** 1. Article SCOR ARTICOL = 1.135 (SEPARATORUL UTILIZAT PENTRU ZECIMALE ESTE PUNCTUL) *SCOR = SRI SE DIVIDE LA 1*
2	**Data publicării articolului:** 26/07/2013 **Denumirea revistei:** PHYS REV C ISSN: 0556-2813 SRI: 1.255 **Titlul articolului:** Low energy deuteron-induced reactions on 93Nb **Accession Number WOS:** 000322531400003 **Nr. total autori:** 10 autori **Autorii articolului:** Marilena Avrigeanu, V. Avrigeanu, P. Bem, U. Fischer, M. Honusek, A.J. Koning, J. Mrazek, E.Simeckova, M. Stefanik, and L. Zavorka **Tip autor:** b) autorul corespondent **Nr. autori corespondenţi:** 1 autor **Document type:** 1. Article SCOR ARTICOL = 1.255 (SEPARATORUL UTILIZAT PENTRU ZECIMALE ESTE PUNCTUL) *SCOR = SRI SE DIVIDE LA 1*

3	**Data publicării articolului:** 12/07/2016 **Denumirea revistei:** PHYSICAL REVIEW C ISSN: 2469-9985 SRI: 1.371 **Titlul articolului:** Deuteron-induced reactions on Ni isotopes up to 60 MeV **Accession Number WOS:** 000379506500004 **Nr. total autori:** 8 autori **Autorii articolului:** Marilena Avrigeanu, E. Simeckova, U. Fischer, J. Mrazek, J. Novak, M. Stefanik, C. Costache,and V. Avrigeanu **Tip autor:** b) autorul corespondent **Nr. autori corespondenți:** 1 autor **Document type:** 1. Article SCOR ARTICOL = 1.371 (SEPARATORUL UTILIZAT PENTRU ZECIMALE ESTE PUNCTUL) *SCOR = SRI SE DIVIDE LA 1*
4	**Data publicării articolului:** 24/08/2015 **Denumirea revistei:** PHYSICAL REVIEW C ISSN: 2469-9985 SRI: 1.000 **Titlul articolului:** Role of breakup and direct processes in deuteron-induced reactions at low energies **Accession Number WOS:** 000359944200001 **Nr. total autori:** 2 autori **Autorii articolului:** Marilena Avrigeanu and V. Avrigeanu **Tip autor:** b) autorul corespondent **Nr. autori corespondenți:** 1 autor **Document type:** 1. Article SCOR ARTICOL = 1.000 (SEPARATORUL UTILIZAT PENTRU ZECIMALE ESTE PUNCTUL) *SCOR = SRI SE DIVIDE LA 1*
5	**Data publicării articolului:** 01/04/2014 **Denumirea revistei:** NUCLEAR DATA SHEETS ISSN: 0090-3752 SRI: 3.110 **Titlul articolului:** Consistent analysis of the nuclear reaction mechanisms involved in the deuteron-induced activations at low and medium energies **Accession Number WOS:** 000347704400063 **Nr. total autori:** 2 autori **Autorii articolului:** Marilena Avrigeanu and V. Avrigeanu **Tip autor:** b) autorul corespondent **Nr. autori corespondenți:** 1 autor **Document type:** 1. Article SCOR ARTICOL = 3.110 (SEPARATORUL UTILIZAT PENTRU ZECIMALE ESTE PUNCTUL) *SCOR = SRI SE DIVIDE LA 1*
6	**Data publicării articolului:** 14/02/2017 **Denumirea revistei:** PHYSICAL REVIEW C ISSN: 2469-9985 SRI: 1.354 **Titlul articolului:** Additive empirical parametrization and microscopic study of deuteron breakup **Accession Number WOS:** 000393852900003 **Nr. total autori:** 2 autori **Autorii articolului:** Marilena Avrigeanu and V. Avrigeanu **Tip autor:** b) autorul corespondent **Nr. autori corespondenți:** 1 autor **Document type:** 1. Article SCOR ARTICOL = 1.354 (SEPARATORUL UTILIZAT PENTRU ZECIMALE ESTE PUNCTUL) *SCOR = SRI SE DIVIDE LA 1*
7	**Data publicării articolului:** 13/09/2018 **Denumirea revistei:** PHYSICAL REVIEW C ISSN: 2469-9985 SRI: 1.106 **Titlul articolului:** Consistent account of deuteron-induced reactions on natCr up to 60 MeV **Accession Number WOS:** 000444599000002 **Nr. total autori:** 8 autori **Autorii articolului:** E. Simeckova, Marilena Avrigeanu, U. Fischer, J. Mrazek, J. Novak, M. Stefanik, C. Costache,and V. Avrigeanu **Tip autor:** b) autorul corespondent **Nr. autori corespondenți:** 1 autor **Document type:** 1. Article SCOR ARTICOL = 1.106 (SEPARATORUL UTILIZAT PENTRU ZECIMALE ESTE PUNCTUL) *SCOR = SRI SE DIVIDE LA 1*

8	**Data publicării articolului:** 13/02/2020 **Denumirea revistei:** PHYSICAL REVIEW C ISSN: 2469-9985 SRI: 1.334 **Titlul articolului:** Deuteron-induced reactions on manganese at low energies **Accession Number WOS:** 000513214500001 **Nr. total autori:** 8 autori **Autorii articolului:** Marilena Avrigeanu, E. Simeckova, U. Fischer, J. Mrazek, J. Novak, M. Stefanik, C. Costache,and V. Avrigeanu **Tip autor:** b) autorul corespondent **Nr. autori corespondenți:** 1 autor **Document type:** 1. Article SCOR ARTICOL = 1.334 (SEPARATORUL UTILIZAT PENTRU ZECIMALE ESTE PUNCTUL) *SCOR = SRI SE DIVIDE LA 1*

SCOR GENERAL ELIGIBILITATE

11.665

Important: * Informațiile completate trebuie sa fie corecte și complete pentru a se putea verifica îndeplinirea standardelor minimale de eligibilitate.
Aplicantul își asumă responsabilitatea corectitudinii informațiilor completate. Orice informație incorect completată poate duce la eliminarea publicației din calculul punctajului.

B.2. The visibility and the impact of the scientific contribution of the project leader

TOTAL NUMBER OF CITATIONS 1.762

HIRSCH INDEX 23

PERSONAL LINK FROM THE WWW.BRAINMAP.RO PLATFORM

https://www.brainmap.ro/public-profile-82889317

THE PROFILE ADDRESS FROM AT LEAST ONE OF THE FOLLOWING WILL BE INDICATED:

Scopus Author ID:
ORCID:
http://orcid.org/0000-0002-0881-3466
Researcher ID:
http://www.researcherid.com/rid/B-6068-2011
Google Scholar:
MR Author ID:

The most representative publications (max. 10)

PUBLICATION #1
Type: Article

IDENTIFICATION DATA: M. Avrigeanu, V. Avrigeanu, P. Bem, U. Fischer, M. Honusek, K. Katovsky, C. Manailescu, J. Mrazek, E. Simeckova, and L. Zavorka, Low energy deuteron-induced reactions on Fe, Phys. Rev. C 89, 044613 (2014), category Q1 (2014)

IS SHE/HE THE MAIN AUTHOR? Yes

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 10

D.O.I. http://dx.doi.org/10.1103/PhysRevC.89.044613

PUBLICATION #2
Type: Article

IDENTIFICATION DATA: M. Avrigeanu, V. Avrigeanu, P. Bem, U. Fischer, M. Honusek, A.J. Koning, J. Mrazek, E. Simeckova, M. Stefanik, and L. Zavorka. Low energy deuteron-induced reactions on 93Nb, Phys. Rev. C 88, 014612 (2013), category Q1 (2016)

IS SHE/HE THE MAIN AUTHOR? Yes

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 8

D.O.I. http://dx.doi.org/10.1103/PhysRevC.88.014612

PUBLICATION #3
Type: Article

IDENTIFICATION DATA: M. Avrigeanu, E. Simeckova, U. Fischer, J. Mrazek, J. Novak, M. Stefanik, C. Costache, and V. Avrigeanu, Deuteron-induced reactions on Ni isotopes up to 60 MeV, Phys. Rev. C 94, 014606 (2016), category Q1 (2016)

IS SHE/HE THE MAIN AUTHOR? Yes

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 8

D.O.I. http://dx.doi.org/10.1103/PhysRevC.94.014606

PUBLICATION #4
Type: Article

IDENTIFICATION DATA: M. Avrigeanu and V. Avrigeanu, Role of breakup and direct processes in deuteron-induced reactions at low energies, Phys. Rev. C 92, 021601 (R) (2015), category Q1 (2015)

IS SHE/HE THE MAIN AUTHOR? Yes

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 2

D.O.I. http://dx.doi.org/10.1103/PhysRevC.92.021601

PUBLICATION #5
Type: Article

IDENTIFICATION DATA: M. Avrigeanu and V. Avrigeanu, Consistent analysis of the nuclear reaction mechanisms involved in the deuteron-induced activations at low and medium energies, Nucl. Data Sheets 118, 301-304 (2014), category Q1 (2014)

IS SHE/HE THE MAIN AUTHOR? Yes

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 0

D.O.I. http://dx.doi.org/10.1016/j.nds.2014.04.064

PUBLICATION #6
Type: Article

IDENTIFICATION DATA: M. Avrigeanu and V. Avrigeanu, Additive empirical parametrization and microscopic study of deuteron breakup, Phys. Rev. C 95, 024607 (2017), category Q2

IS SHE/HE THE MAIN AUTHOR? Yes

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 1

D.O.I. https://doi.org/10.1103/PhysRevC.95.024607

PUBLICATION #7
Type: Article

IDENTIFICATION DATA: E. Simeckova, M. Avrigeanu, U. Fischer, J. Mrazek, J. Novak, M. Stefanik, C. Costache, and V. Avrigeanu, Consistent account of deuteron-induced reactions on natCr up to 60 MeV, Phys. Rev. C 98, 034606 (2018) , category Q2

IS SHE/HE THE MAIN AUTHOR? Yes

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 4

D.O.I. https://doi.org/10.1103/PhysRevC.98.034606

PUBLICATION #8
Type: Article

IDENTIFICATION DATA: M. Avrigeanu, E. Simeckova, U. Fischer, J. Mrazek, J. Novak, M. Stefanik, C. Costache, and V. Avrigeanu, Deuteron-induced reactions on manganese at low energies, Phys. Rev. C 101, 024605 (2020), category Q2

IS SHE/HE THE MAIN AUTHOR? Yes

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 0

D.O.I. https://doi.org/10.1103/PhysRevC.101.024605

PUBLICATION #9
Type: Article

IDENTIFICATION DATA: U. Fischer, M. Angelone, M. Avrigeanu, V. Avrigeanu, C. Bachmann, N. Dzysiuk, M. Fleming, A. Konobeev, I. Kodeli, A. Koning, H. Leeb, D. Leichtle, F. Ogando, P. Pereslavtsev, D. Rochman, P. Sauvan,

S. Simakov, The role of nuclear data for fusion nuclear technology, Fusion Eng. Design 136, 162-167 (2018), category Q1

IS SHE/HE THE MAIN AUTHOR? No

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 4

D.O.I. https://doi.org/10.1016/j.fusengdes.2018.01.036

PUBLICATION #10
Type: Article

IDENTIFICATION DATA: X. Ledoux, M. Aiche, M. Avrigeanu, V. Avrigeanu, E. Balanzat, B. Ban-d'Etat, G. Ban, E. Bauge, G. Belier, P. Bem, C. Borcea, T. Caillaud, A. Chatillon, S. Czajkowski, P. Dessagne, D. Dore, U. Fischer, M.O. Fregeau, J. Grinyer, S. Guillous, F. Gunsing, G. Gustavsson, G. Henning, B. Jacquot, K. Jansson, B. Jurado, M. Kerveno, A. Klix, O. Landoas, F.R. Lecolley, J.L. Lecouey, M. Majerle, N. Marie et al., The Neutrons for Science facility at SPIRAL-2, Nucl. Data Sheets 119, 353 (2014), category Q1

IS SHE/HE THE MAIN AUTHOR? No

IS IT IN THE PROJECT DOMAIN? Yes

NUMBER OF CITATIONS: 17

D.O.I. https://doi.org/10.1016/j.nds.2014.08.097

Funding Application Form

FUNDING APPLICATION FORM* (ENGLISH - SECTIONS B AND C)

For projects in Romanian specific domains (according to Annex 5) the Funding Application can be written in Romanian.
Document must be uploaded **imperatively** as an **unprotected PDF file** (document generated from a word processor file to a PDF, **no scanned document**)

Sectiunea B si C_IFINHH-MAv.pdf (06/07/2021, 147.43 kb)

B2. THE VISIBILITY AND THE IMPACT OF THE SCIENTIFIC CONTRIBUTION OF THE PROJECT LEADER* (ENGLISH)

Upload the pdf file generated & downloaded from "1.6 B2 - Visibility & Impact" section

B2_PCE-2021-2566.pdf (06/07/2021, 64.65 kb)

Declaraţii **

ANEXA 7*

Declarație privind nefinanțarea din alte surse, certificarea legalității și corectitudinea informațiilor cuprinse în cererea de finanțare și a informațiilor completate în platforma de depunere.

ANEXA_7_IFINHH-MAv.pdf (63.03 kb)

ANEXA 8*

Declarație pe propria răspundere a instituției gazdă în limba română prin care se certifică acceptarea implementării proiectului în instituție.

ANEXA_8_IFINHH-MAv.pdf (65.09 kb)

ANEXA 9

Declarația pe propria răspundere a instituției gazdă privind încadrarea în definiția organizației de cercetare. Această declarație nu trebuie depusă de către universitățile acreditate, institutele Academiei Române și institutele naționale de cercetare – dezvoltare.

ANEXA 10*

Declarație pe propria răspundere privind eligibilitatea financiara a institutiei gazdă.

ANEXA_10_IFINHH-MAv.pdf (53.85 kb)

ANEXA 11

Acordul conducătorului de doctorat.

Experți de evitat în evaluarea propunerii de proiect (dacă este cazul)

EXISTĂ POSIBILITATEA CA UN DIRECTOR DE PROIECT SĂ INDICE CEL MULT DOI EXPERȚI DE EVITAT ÎN EVALUAREA PROPUNERII DE PROIECT DEPUSE (CONFLICTE INSTITUȚIONALE SAU PERSONALE, CONCURENȚĂ ȘTIINȚIFICĂ)

EXPERT 1	EXPERT 2
FIRST NAME	**FIRST NAME**
LAST NAME	**LAST NAME**
COUNTRY [Select Country]	**COUNTRY** [Select Country]
INSTITUTION	**INSTITUTION**
EMAIL	**EMAIL**

* Mandatory fields.
** Signed, scaned, .pdf textual format