

ADDENDUM 5.5

FACULTY/ INSTITUTE INTERDISCIPLINARY RESEARCH INSTITUTE ON BIO-NANO-SCIENCES (INSTITUTUL DE CERCETĂRI INTERDISCIPLINARE ÎN BIO-NANO-ȘTIINȚE)

DEPARTMENT/ CENTRE _____

Selection competition for the position of Scientific researcher grade III (Cercetător științific gradul III), establishment plan no. 20

Position-specific subjects/ Research fields Environmental radioactivity and Nuclear Dating (Disciplina: Cercetare în Radioactivitatea mediului și datare nucleară)

Compliance criteria CHECKLIST

established by the University for the open position of
Assistant professor/ Lecturer/ Third degree scientific researcher

Candidate: Dr. Aditi Krishna Dave / Date of birth: 30-06-1991

Current position: Postdoctoral Researcher in European Research Council (ERC) Project: ERC-INTERTRAP (01.09.2022 -31.12.2022) and ERC-PROGRESS (1.01.2023-31.12.2024), Date appointed to current position: 01.09.2023,

Institution: Interdisciplinary Research Institute on Bio-Nano-Sciences (Institutul de Cercetări Interdisciplinare în Bio-Nano-Științe)

1. Higher education studies

Sr. No.	Higher education institution and faculty graduated	Field	Period	Title
1.	Miranda House College, University of Delhi, India (Faculty: Department of Chemistry)	Chemistry	2009 – 2012	B.Sc. (Honours) Chemistry
2.	University of Delhi, India (Faculty: Department of Chemistry)	Chemistry	2012 - 2014	M.Sc Chemistry
3.	University of Oxford, U.K. (Faculty: Research Laboratory for Archaeology and the History of Art (RLAHA), School of Archaeology)	Archaeological Sciences	2014 - 2015	M.Sc Archaeological Sciences

2. Doctoral studies

Sr. No.	Institution Organising Doctoral Studies	Field	Period	Academic degree title
1.	Max Planck Institute for Chemistry, Mainz (Degree Awarding University: Johannes Gutenberg University, Mainz, Germany)	Geology	2017-2021	PhD (Dr.rer.nat)

3. Compliance with the minimum standards established by the University

Performance indicators/ min. no. achievements	No. of applicant's achievements
<p>Fulfilling one of the alternative scientific requirements listed below:</p> <p>a) an author/co-author of eight scientific papers (articles/chapters in books/books) that have been indexed in recognized international databases (for articles) or published in prestigious national or international publishing houses (for chapters/books); the applicant must be the main author for at least four papers;</p>	<p>9 peer-reviewed scientific articles published in prestigious International journals which are ranked as Q1 and Q2 journals. 4 out of the 9 articles are first-author papers.</p> <p>List of peer-reviewed publications:</p> <ol style="list-style-type: none"> 1. Schaetzl, R.J., Bettis, E.A., Crouvi, O., Fitzsimmons, K.E., Grimley, D.A., Hambach, U., Lehmkuhl, F., Marković, S.B., Mason, J.A., Owczarek, P., Roberts, H.M., Rousseau, D.-D., Stevens, T., Vandenberghe, J., Zarate, M., Veres, D., Yang, S., Zech, M., Conroy, J.L., Dave, A.K., Faust, D., Hao, Q., Obreht, I., Prud'homme, C., Smalley, I., Tripaldi, A., Zeeden, C., Zech, R. 2018. Approaches and challenges to the study of loess. <i>Quaternary Research</i> (89), 563-618. 2. Dave, A.K., Courty, M.A., Fitzsimmons, K.E., Singhvi, A.K. 2019. Revisiting the contemporaneity of a mighty river and the Harappans: Archaeological, stratigraphic and chronometric constraints. <i>Quaternary Geochronology</i> 49, 230-235. 3. Fitzsimmons, K.E., Nowatski, M., Dave, A.K., Harder, H. 2020. Intersections between wind regimes, topography and sediment supply: Perspectives from aeolian landforms in Central Asia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> 540, 109-531. 4. Fitzsimmons, K.E.; Perić, Z.; Nowatzki, M.; Lindauer, S.; Vinnepand, M.; Prud'homme, C.; Dave, A.K.; Vött, A.; Fischer, P. 2022. Luminescence Sensitivity of Rhine Valley Loess: Indicators of Source Variability? <i>Quaternary</i> 5 (1). 5. Dave, A. K., Timar-Gabor, A., Scardia, G., Safaraliev, N., Fitzsimmons, K. E. 2022. Variation in Luminescence Characteristics and Paramagnetic Defect Centres in Fine-Grained Quartz from a Loess-Palaeosol Sequence in Tajikistan: Implications for Provenance Studies in Aeolian Environments. <i>Frontiers in Earth Science</i>. 10:835281. doi: 10.3389/feart.2022.835281 6. Dave, A. K., Timar-Gabor, A., Kabacińska, Z., Scardia, G., Safaraliev, N., Nigmatova, S., Fitzsimmons, K. E. 2022. A novel proxy for tracking the provenance of dust based on paired E1'-peroxy paramagnetic defect centers in fine-grained quartz. <i>Geophysical Research Letters</i>, 49, e2021GL095007. https://doi.org/10.1029/2021GL095007. 7. Frouin, M., Douka, K, Dave, A.K., Schwenninger, J-L., Mercier, N., Murray, A.S., Santaniello, F., Boschian, G., Grimaldi, S., Higham, T. 2022. A refined chronology for the Middle and the early Upper Palaeolithic at Riparo Mochi (Liguria, Italy). <i>Journal of Human Evolution</i> (169), 103211. https://doi.org/10.1016/j.jhevol.2022.103211 8. Li, Y., Song, Y., Fitzsimmons, K.E., Dave, A.K., Liu, Y., Zong, X., Sun, H., Liu, H., Orozbaev, R. 2022. Investigating potential links between fine-grained components in loess and westerly air-flow: evidence from East and Central Asia. <i>Frontiers in Earth Science</i> 10:901629. https://doi.org/10.3389/feart.2022.901629

	<p>9. Dave, A. K., Lisa, L., Scardia, G., Nigmatova, S., and Fitzsimmons, K. E. 2023. The patchwork loess of Central Asia: Implications for interpreting aeolian dynamics and past climate circulation in piedmont regions. <i>Journal of Quaternary Science</i> 38 (4), 526-524. https://doi.org/10.1002/jqs.3493</p>
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The candidate will complete the table with the minimal standards, where applicable, of the faculty where the vacancy was listed (see *“Eligibility criteria for teaching positions in faculties”* in the *“REGULATION”* section on the web page dedicated to the selection competition)

Applicant’s signature,

ANEXA Nr. 5.5

FACULTATEA/ INSTITUTUL INSTITUTUL DE CERCETĂRI INTERDISCIPLINARE ÎN BIO-NANO-ȘTIINȚE (INTERDISCIPLINARY RESEARCH INSTITUTE ON BIO-NANO-SCIENCES)

DEPARTAMENTUL/ CENTRUL _____ - _____

Concurs pentru ocuparea postului de Cercetător științific gradul III (Scientific researcher grade III), poz. 20
Disciplinele postului/ Ariile de cercetare Cercetare în Radioactivitatea mediului și datare nucleară (Environmental radioactivity and Nuclear Dating)

FIȘA DE VERIFICARE

a îndeplinirii standardelor Universității de prezentare la concurs pentru postul de
Lector universitar/ Șef de lucrări/ Cercetător științific gradul III

Candidat: Dr. Aditi Krishna Dave / Data nașterii: 30-06-1991

Funcția actuală: Postdoctoral Researcher in European Research Council (ERC) Project: ERC-INTERTRAP (01.09.2022 -31.12.2022) and ERC-PROGRESS (1.01.2023-31.12.2024), Data numirii în funcția actuală: 01.09.2023.

Instituția: Institutul de Cercetări Interdisciplinare în Bio-Nano-Științe (Interdisciplinary Research Institute on Bio-Nano-Sciences)

1. Studiile universitare

Nr. crt.	Instituția de învățământ superior și facultatea absolvită	Domeniul	Perioada	Titlul acordat
1.	Miranda House College, University of Delhi, India (Faculty: Department of Chemistry)	Chemistry	2009 – 2012	B.Sc. (Honours) Chemistry
2.	University of Delhi, India (Faculty: Department of Chemistry)	Chemistry	2012 - 2014	M.Sc Chemistry
3.	University of Oxford, U.K. (Faculty: Research Laboratory for Archaeology and the History of Art (RLAHA), School of Archaeology)	Archaeological Sciences	2014 - 2015	M.Sc Archaeological Sciences

2. Studiile de doctorat

Nr. crt.	Instituția organizatoare de doctorat	Domeniul	Perioada	Titlul științific acordat
1.	Max Planck Institute for Chemistry, Mainz (Degree Awarding University: Johannes Gutenberg University, Mainz, Germany)	Geology	2017-2021	PhD (Dr.rer.nat)

3. Îndeplinirea standardelor minimale ale Universității

Indicatori de performanță/ nr.min.realizări	Nr. realizări candidat
<p>îndeplinirea unuia dintre următoarele criterii științifice alternative:</p> <p>a) calitatea de autor/ coautor al unui număr de 8 lucrări științifice (articole/ capitole în cărți/ cărți), indexate în WoS/Scopus/ErihPlus (pentru articole) sau apărute la edituri de prestigiu din țară sau străinătate (pentru capitole/ cărți); pentru cel puțin 4 lucrări candidatul trebuie să fie autor principal;</p>	<p>9 peer-reviewed scientific articles published in prestigious International journals which are ranked as Q1 and Q2 journals. 4 out of the 9 articles are first-author papers.</p> <p>List of peer-reviewed publications:</p> <ol style="list-style-type: none"> 1. Schaetzl, R.J., Bettis, E.A., Crouvi, O., Fitzsimmons, K.E., Grimley, D.A., Hambach, U., Lehmkuhl, F., Marković, S.B., Mason, J.A., Owczarek, P., Roberts, H.M., Rousseau, D.-D., Stevens, T., Vandenberghe, J., Zarate, M., Veres, D., Yang, S., Zech, M., Conroy, J.L., Dave, A.K., Faust, D., Hao, Q., Obreht, I., Prud'homme, C., Smalley, I., Tripaldi, A., Zeeden, C., Zech, R. 2018. Approaches and challenges to the study of loess. <i>Quaternary Research</i> (89), 563-618. 2. Dave, A.K., Courty, M.A., Fitzsimmons, K.E., Singhvi, A.K. 2019. Revisiting the contemporaneity of a mighty river and the Harappans: Archaeological, stratigraphic and chronometric constraints. <i>Quaternary Geochronology</i> 49, 230-235. 3. Fitzsimmons, K.E., Nowatski, M., Dave, A.K., Harder, H. 2020. Intersections between wind regimes, topography and sediment supply: Perspectives from aeolian landforms in Central Asia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> 540, 109-531. 4. Fitzsimmons, K.E.; Perić, Z.; Nowatzki, M.; Lindauer, S.; Vinnepand, M.; Prud'homme, C.; Dave, A.K.; Vött, A.; Fischer, P. 2022. Luminescence Sensitivity of Rhine Valley Loess: Indicators of Source Variability? <i>Quaternary</i> 5 (1). 5. Dave, A. K., Timar-Gabor, A., Scardia, G., Safaraliev, N., Fitzsimmons, K. E. 2022. Variation in Luminescence Characteristics and Paramagnetic Defect Centres in Fine-Grained Quartz from a Loess-Palaeosol Sequence in Tajikistan: Implications for Provenance Studies in Aeolian Environments. <i>Frontiers in Earth Science</i>. 10:835281. doi: 10.3389/feart.2022.835281 6. Dave, A. K., Timar-Gabor, A., Kabacińska, Z., Scardia, G., Safaraliev, N., Nigmatova, S., Fitzsimmons, K. E. 2022. A novel proxy for tracking the provenance of dust based on paired E1'-peroxy paramagnetic defect centers in fine-grained quartz. <i>Geophysical Research Letters</i>, 49, e2021GL095007. https://doi.org/10.1029/2021GL095007. 7. Frouin, M., Douka, K, Dave, A.K., Schwenninger, J-L., Mercier, N., Murray, A.S., Santaniello, F., Boschian, G., Grimaldi, S., Higham, T. 2022. A refined chronology for the Middle and the early Upper Palaeolithic at Riparo Mochi (Liguria, Italy). <i>Journal of Human Evolution</i> (169), 103211. https://doi.org/10.1016/j.jhevol.2022.103211 8. Li, Y., Song, Y., Fitzsimmons, K.E., Dave, A.K., Liu, Y., Zong, X., Sun, H., Liu, H., Orozbaev, R. 2022. Investigating potential links between fine-grained components in

	<p>loess and westerly air-flow: evidence from East and Central Asia. <i>Frontiers in Earth Science</i> 10:901629. https://doi.org/10.3389/feart.2022.901629</p> <p>9. Dave, A. K., Lisa, L., Scardia, G., Nigmatova, S., and Fitzsimmons, K. E. 2023. The patchwork loess of Central Asia: Implications for interpreting aeolian dynamics and past climate circulation in piedmont regions. <i>Journal of Quaternary Science</i> 38 (4), 526-524. https://doi.org/10.1002/jqs.3493</p>
<p>Tabelul va fi completat de către candidat, acolo unde este cazul, cu standardele minimale ale facultății în cadrul căreia a fost scos la concurs postul (<i>a se vedea rubrica "Standarde minimale privind ocuparea posturilor didactice de la facultăți", din cadrul secțiunii "LEGISLAȚIE", de pe pagina web a concursului</i>)</p>	

Semnătură candidat,