

## ÚOCHB # SIMONS FOUNDATION

Deadline	Thu 06 Sep 2018 17:00 EST Letters of Recommendation Tue 11 Sep 2018 17:00 EST First-stage Proposal Tue 04 Dec 2018 17:00 EST Second-stage Proposal
Call name	Simons Collaboration on the Origins of Life Postdoctoral Fellowships 2019 (SCOL 2019)
www	https://www.simonsfoundation.org/life-sciences/
	https://www.simonsfoundation.org/life-sciences/simons-collaboration-on-the-origins-of-life/
	https://www.simonsfoundation.org/grant/simons-collaboration-on-the-origins-of-life-
	postdoctoral-fellowships/
Focused on	Postdoctoral 3-year fellowships for independent research on topics related to the origins of life
Applicant	Postdocs of any nationality around the world with a Ph.D. degree completed within 5 years of
Heat institution	the fellowship s staft date
Expected	Posoarch: (1) Reviewed publications
	Research, (5) Reviewed publications
Call opens	Fri 01 Jun 2018
Final deadline	Thu 06 Sep 2018 17:00 EST Letters of Recommendation
	Tue 11 Sep 2018 17:00 EST First-stage Proposal
	Tue 04 Dec 2018 17:00 EST Second-stage Proposal
Evaluation	Tue 06 Nov 2018 First-stage decisions
results	Fri 14 Dec 2018 Second-stage decisions
	Tue 08 Jan 2019 Accept or decline deadline
Signature of	NA
agreement	
Earliest date of	Mon 01 Apr 2019 (first of the month from April to October 2019)
Implementation	Eri 20 Con 2022
Latest date of	Fri 30 Sep 2022
Sustainability	Nono
Reporting	Annual Progress Report (3)
Project duration	Lin to 36 months (3 years)
(min-max)	
Allocation for	5 fellowships
the call	
Project budget	\$82,000–256,000
(min-max)	
Success rate	NA
Eligible costs	Stipend of <b>\$62,000</b> per year for living expenses
	Research allowance up to <b>\$20,000</b> per year may be used for supplies, publication costs, small
	equipment & other research-related expenses such as travel costs
	No indirect costs may be taken
Mode of funding	Ex-ante
Language of	English
application	
Provider	Simons Foundation, 160 Fifth Avenue, 7th Floor, New York, New York 10010, US
	www.simonsfoundation.org, 646 654 0066, lifesciences@simonsfoundation.org
	Program inquiries: origins@simonsfoundation.org
	Administrative inquiries: 646 751 1280, lifegrants@simonsfoundation.org
	Technical assistance: 800 875 2562, pcsupport@altum.com
Call identifier	SCOL 2019
Call info	The Simons Collaboration on the Origins of Life (SCOL) supports creative, innovative research
	up to 3 years on topics such as the astrophysical and planetary context of the origins of life, the
	evelution and the earliest signs of life on the volume Earth. The SCOL provides postdestare
	fellowships to young researchers around the world who have received Ph.D. degree within 5
	vears of the fellowship's start date to engage ideas creativity & interaction with colleagues
	from all origins-related disciplines.

Conditions /	Candidates must have received their Ph.D. or equivalent degree within five years of the
Restrictions	fellowship's start date.
	There are no citizenship or country requirements.
	Preference will be given to postdocs who are not in currently funded SCOL Investigator labs.
	Payment cannot be made directly to fellows. No direct costs may be taken.
	All proposals must be completed electronically and submitted using forms provided at
	proposalCENTRAL https://proposalcentral.altum.com/default.asp
	Fellows are expected to participate fully in all SCOL events, including webinars, workshops and
	annual symposia to strengthen the fruitful collaboration within a growing origins-of-life
	community.
Proposal	I. Online submission of a Letters of Recommendation via proposalCENTRAL system.
consists of	https://proposalcentral.altum.com (Thu 06 Sep 2018 17:00 EST)
	1) Two confidential Letters of Recommendation from current/former advisors (other than the
	mentor) or other scientists familiar with your work (upload in PDF. "Surname") (referees)
	, , , , , , , , , , , , , , , , , , , ,
	II. Online submission of a First-Stage Proposal via proposalCENTRAL system,
	https://proposalcentral.altum.com (Tue 11 Sep 2018 17:00 EST)
	2) Online basic information: (i) Title page (max 250 characters); (ii) Download templates &
	instructions; (iii) Enable other users to access this proposal; (iv) Applicant/PI; (v) Institutions &
	contacts; (vi) Key personnel; (vii) Letters of Recommendation: 2 contacts on referees; (viii)
	Abstracts: 1 abstract for general audience up to 3000 characters & 1 abstract for technical
	audience up to 3000 characters; (ix) Proposal Attachments (applicant)
	3) Proposal Narrative addresses one or more of the 10 key questions: (i) Specific Aims; (ii)
	Background; (iii) Significance of this work to the origins of life; (iv) Research Design & Methods
	(use template, max 2 pages excluding references, upload in PDF, "Surname_Proposal-
	Narrative") (applicant & mentor)
	4) Applicant's Biosketch: (i) Personal Statement; (ii) Positions & Honors; (iii) Selected Peer-
	review Publications; (iv) Research Support (use template, max 2 pages, upload in PDF,
	"Surname_Biosketch") (applicant)
	5) Mentor's Biosketch: (i) Personal Statement; (ii) Positions & Honors; (iii) Selected Peer-
	review Publications; (iv) Research Support (use template, max 2 pages, upload in PDF,
	"Surname_Biosketch") (mentor)
	6) Signed Letter of Support/Acceptance from the mentor (upload in PDF, "Surname_Letter of
	Support") (mentor)
	III. Online submission of a <b>Second-Stage Proposal</b> via proposalCENTRAL system,
	https://proposalcentral.altum.com (Tue 04 Dec 2018 17:00 EST)
	() Budget for 3 years (applicant & mentor)
	8) Brief budget justification (applicant & mentor)
	9) Renewable reagents and <b>data-sharing plan</b> (applicant & mentor)
	10) <b>501(C)(3) determination or equivalency letter</b> (foreign institutions only). The Simons
	Foundation requires a determination letter from the U.S. Internal Revenue Service (IRS) stating
	exemption under 501(c)(3) and, furthermore, either a 509(a)(1), (2) or (3) classification. If an
	international institution is selected for funding and does not have the aforementioned
	documentation, the Simons Foundation will require the institution to complete an equivalency
	determination with INGUSOURCE (see Policies and Procedures) (nost institution)
	fillow/a institution(a) to administrational approval to document the communent norm the
Evoluction	Quelity and innegativeness of the proposed respect hereiget
Evaluation	Quality and innovativeness of the proposed research project
Docoarch aroac	Life sciences: topics related to the origins of life
Research aleas	1) What is the range of possible planetary environments? How do evenlanets, and the
	composition of their atmospheres, compare to Earth and other solar system bodies? What
	factors influence planetary babitability and the course of planetary evolution? How encoded in
	the Earth and our solar system? How can space missions help inform those questions?
	2) What chamical processes shaped the composition of asteroids and compte? How can we
	explain the diversity of organic compounds present in these primitive bodies? What caused the
	explain the diversity of organic compounds present in these prinning bodies? What Caused the
	isotonic differentiation tell us about the genesis of prehiotic materials?
	3) What governed the accretion supply of water and other volatiles, chemistry and internal
	differentiation of the planets and the evolution of their atmospheres? What minerals would have
	heen present on the early Farth and the ancient crusts of other terrestrial planets such as
	Mars? What role did photochemistry and hombardment by large projectiles play in the origin

	of life? Conversion events in chemical compounds preserved in the Forth's configuration of
	of life? Can we explain certain chemical compounds preserved in the Earth's early rock record
	as "prebiotic tossils" of the origin of life? Does Mars serve as an analog for Earth and possibly
	preserve relicts of prebiotic compounds that have been erased on Earth as a result of plate
	tectonics?
	4) What sort of chemistry led to the building blocks of biology? Can reductive homologation
	chemistry of hydrogen cyanide generate all the building blocks? Are alternative chemistries
	possible? How and when was homochirality established? Were nucleotides, amino acids and
	lipids produced simultaneously or sequentially?
	5) How were oligomers of building blocks produced and reproduced? What was the chemistry
	of oligomerization? Were RNA and peptides produced simultaneously or sequentially, and how
	did they co-evolve? Can efficient replication of RNA be demonstrated without peptide/RNA
	catalysis or is such catalysis assential? How would RNA fitness landscapes be affected by their
	chemical or physical environments and constrain the evolution of RNA catalysts? Are there
	alternatives to PNA that could have acted as the central hierolymer of primitive cells and then
	alternatives to NNA that could have acted as the central biopolymer of primitive cells and then plausibly given wey to RNA2
	plausibly given way to RIVA?
	b) what was the fole of systems chemistry and how did cooperating, homeostatic hetworks
	form and develop spontaneously? How do simple, individual chemical reactions self-assemble
	spontaneously into the dissipative networks that now form the basis of all metabolism? How did
	chemistry that seems characteristic of different environments (hot brine ponds, lakes,
	geothermal vents, aerosols of ocean spray, hot sunny rocks?) come together to form simple
	cells? What fits both plausible chemistry and plausible geochemical scenarios? How did
	dissipation of energy enable both the operation and (more important and difficult) the formation
	of dissipative and self-improving networks? How did "chemistry" become "life"?
	7) How did primitive protocells assemble and replicate? What physical and chemical
	mechanisms drove the growth and division of the earliest protocell membranes? How was the
	replication of genetic polymers, including RNA, affected by encapsulation? How were other
	protocell contents replicated?
	8) How did catalysis gain control of early biology? How did prebiotic syntheses morph into
	genetically encoded metabolic pathways? How can we explain the origins of biological
	catalysis in the chemistry of the early Earth? How did the complex process of genetically
	encoded peptide synthesis emerge? What is the origin of the genetic code?
	9) What can be learned by looking back? What can deep phylogeny tell us about the history of
	life prior to the last common ancestor? What constraints can be placed on the time of the
	earliest possible origin of life on Earth? What are the earliest records of microbial life and how
	do we evaluate their robustness? What can be done to improve the fidelity of biogeochemical
	records on the early Farth and notentially Mars?
	10) What factors controlled the dominant biogeochemical cycles of ancient Earth and (bio2)
	reochemical cycles on Mars2 What was the composition of the atmospheres of the Hadean
	and Archean Earth and of Noachian and early Hesperian Mars? What were the major steps in
	the early co-evolution of life and environments on Earth up to and including the Great
	Ovidation Event?
	EXOs: https://www.simonefoundation.org/grant/simone_collaboration_on_the_origine_of_life_
Call workshop	nostdoctoral_fellowships/2tab_fag
	Please inform the IOCR Project Office about your intention to apply
IOCD COMACI	De net besitete envirme te contect us for conculting, discussion er belo
	bo not nestiate anytime to contact us for consulting, discussion of help.
Davialaad	Diolectonice@docini.cds.cz, +420 220 165 200
Download	2010-00-01_10CB_Call_SCOL-2019_D2010-09-11
uocuments	SOUL 2019 guidelines
	SCOL 2019 Instructions Letters of Recommendation
	SCOL 2019 Instructions First-stage Proposal
	SUCE 2019 First-stage Proposal Template
	SCOL 2019 Biosketch Template
	SCOL 2019 FAQs
	Simons Foundation Policies