

Koniku Inc.

We are an early stage startup based in East Bay, in Northern California - a 40 minutes drive to San Francisco. Koniku is the world's first wetware company. Our premise is as simple as it is radical: the merger of synthetic biology, neurobiology and traditional silicon technology into a coherent and sturdy device which solves urgent real world problems – anywhere, lab to street corner. Our maxim is: "Biology is technology". In fact we believe: "any sufficiently advanced technology is indistinguishable from nature."

Koniku offer's a stimulating work environment where you can do world class, first of its kind science without sacrificing our trademark "fierce efficiency". We deliberately operate small, quasi-independent, focused and efficiency matched teams without hierarchies. Lines of communications are always open and interactions with non specialists in adjacent teams are required.

We offer very competitive salaries, full medical coverage, dental, vision, 401K and stock options. We have an unlimited vacation policy, working times are designed with team agreements and what works for everyone is encouraged. We have a clear company culture to which everyone subscribes. Our culture is reviewed regularly so the rules are clear and level for everyone. Find time to visit our lab in the East Bay we have regular open days.

Yes, the customer is the fundamental heart of everything we do – solve real world problems and grant our end users limitless supernatural powers. Join Us!



Job 1

Short Description:

Simulation Engineer (CFD)

Summary:

Join a small, focused development team that contributes to our understanding of mass and heat transfer between our devices and the external world. You will be responsible for developing real world models which help us understand and visualise customised environments where our devices operate. You will be required to provide valuable insights to extremely rapid product changes and market forces. This means being able to listen to customer technical requirements.

The ideal candidate has a PhD in computational fluid dynamics, computational physics or related field with some demonstrable interest in biology or biological systems. We require no more than 3 – 5 years experience in the academia or industry. More experienced applicants will be considered.

Experience & Additional Qualifications:

CFD simulation tasks around HVAC systems, mobile system with air exhausts, inflow and outflows, crowded indoor spaces, aircrafts & airports systems, Deep expertise in one or more of the following: CATIA, ANSYS ICEM , ANSYS CFX / Fluent, AVL Fire, Star – CD, CCM +, ... Simulation of multiphase flows in and around macro & micro structures. Some experience with experimental micro fluidics systems is desired but not required.

Detailed Job Description:

Lead and develop parametric models/tools for various CFD analyses. Contribute to design optimisation based on CFD analysis. Lead hardware requirements efforts, especially related to fitting device into multiple verticals in the most efficient manner.



Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Job 2

Short Description:

Lead Computational Neuroscientist

Summary:

A talented scientist to lead the development of next generation koniku kores. This leadership role is guided by question: “How do we realistically shift more work to existing neural circuits, ready to ship in a few weeks?”. You will develop creative, small neural circuits in silico which can be realistically verified by our proprietary wetware platform — koniku kore. You will also develop safe stimulation, encoding and decoding protocols for neurons in vitro.

The ideal candidate is a sharply pragmatic individual, grounded in experimental data with a strong publication record. We are seeking an energetic and articulate person with a bold vision. You will expected to contribute to building a community around your tools, build and maintain collaborations with Academia.

A PhD in computational neuroscience or neuroinformatics with a regarded research group or PI and a strong publication record is mandatory.

Experience & Additional Qualifications:

Deep and demonstrable experience with the neuron simulation environment or similar. Previous hands on experimental work in vivo and/or in vitro neurophysiology is solid asset. Excellent programming skills in Python, Matlab, Statistical Analysis & Related Packages and other open tools in neuro simulations. Reports directly to CEO.

Detailed Job Description:

Propose new circuits to engineering team. Developing coding mechanisms from sensors to the kore. Design stimulation sequences for neural circuits or neural populations in the kore. Develop tools for the user community. Guide talented neurogrammers within our





3655 Eureka Drive
Newark, CA 94560

cv@koniku.io
(+1) 510 269 2688

outreach program and keep links with academia vibrant. Advice or hire talent to expand on the team as required.

Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Job 3

Short Description:

Electrical Engineer

Summary:

A trustworthy and reliable Electrical Engineer with no more than 3 years of postdoctoral experience. We seek a lead Engineer with experience in neural signal processing. For this role, we will consider outstanding equivalent industry experience – 5yrs. minimum.

The ideal candidate has deep experience with FPGA's programming (Verilog and/or VHDL). A solid understanding of bioelectrical signals amplification, control and microelectronic systems control (e.g. fluidics, MEMS and micro optics) and neuroelectronic interfacing.

You have strong (3+ years experience) skills in design and implementation of embedded firmware applications in C/C++, Python, Matlab and Java. Some knowledge of multiphoton optics, control and pulsed lasers are desired but not required.

You are passionate to see the applications of your work in the real world. You are also required to publish, nurture and maintain strong relationships with the academia. The responsibilities of this role will be accelerated rapidly, therefore you must be a proven team player with genuine, empathic leadership skills. You deliver.

Experience & Additional Qualifications:

3 – 5 years+ hands on design experience with FPGA or related high performance hardware. Experience with bio signal amplification and conditioning on FPGA. Demonstrable work in control theory is desired but not mandatory. Experience with micro fluidics, MEM's and/or micro optics are a plus.

Prior experience in patent review and the patent process is desirable.

Detailed Job Description:



Lead and oversee the design all electronic hardware. Contribute to developing control and computation concepts with bio hardware or wetware. Contribute to overall system integration. Guide talented neurogrammers within our outreach program and keep links with academia vibrant.

Identify channels for procuring materials, identify supply chains with special focus on potential supply chain bottlenecks and designing mitigation strategies is a must.

Communicate with CEO on hiring, advise on product development and market strategy. Reports directly to CEO.

Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Job 4

Short Description:

Product & Reliability Engineer

Summary:

Our device works in horizontal markets and varied scenario's. In tough terrains or very cold environments. This is wetware which must survive the most punishing environment and users – a.k.a the real world. You will put our wetware through its paces without mercy. You will uncover failure points and develop detailed analysis of why it happens. You may also suggest remedies but you must retest to make sure they meet customer needs. It has your name on it.

Equally, important is understanding current product use cases and suggesting more. You will also confer with end users to understand deployment environments and develop realistic in house models for these use cases or identify contractors for such.

Experience & Additional Qualifications:

3 – 5 years practical knowledge of state-of-the-art inspection and quality engineering/assurance techniques, procedures, instruments, equipment, theories, principles and concepts and general business operations. Previous work in a startup environment is beneficial.

Detailed Job Description:

Assesses quality performance using statistical and analytical methods. Devises and implements methods and procedures for inspecting, testing, and evaluating the precision, reliability, and accuracy of products, processes, and production equipment.

Drive continuous improvement of system hardware, diagnostics and software, tooling, technical documentation, and knowledge management.



Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.

.



Job 5

Short Description:

Business Development Manager

Summary:

You are into sales but also have a solid background in technology. The ideal candidate has thorough grasp of biotechnology, biosystems and engineering. You have previously worked in a startup or medium sized corporation and can clearly show that your impact dramatically affected the outcome in revenue for the aforementioned company.

You are a patient, enthusiastic & effective communicator. This position requires a candidate who is able to simplify complex subjects to the average user. You are also able to interact with individual scientist with deep expertise helping them to understand the business value in what they do.

Experience & Additional Qualifications:

1 – 2 years previous work in a startup or startup like environment especially at the intersection of biology and technology. Bachelor's degree in Engineering or Science is a must. M.Sc., PhD or related in a science or engineering discipline is strongly preferred – an MBA is not required. Experience in structuring and closing high value, “first of its kind” B2B deals. You will assuage customer worries at any time or any where. Expect to be on the road 15 – 20% of the time.

Detailed Job Description:

Identify and coordinate the creation of new verticals for our devices, generate leads, develop partnerships, recommend pilots and design contracts. Serve as the key individual for details on business offerings. Understand customer needs, requirements and provide intelligence on how a customer can dramatically prosper.



Listen to customer needs and model customer prosper scenario's and how koniku achieves customer goals. keep the team abreast of emerging threats to existing and emerging competition. Religiously monitor compliance that new device development has a clear customer purpose, increase our revenue base and plugs into the technology roadmap. Reports directly to CEO

Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Job 6

Short Description:

Executive Assistant

Summary:

A discreet, sharp, efficient, experienced and detail-oriented daily executive assistant to the CEO and the team . Your contributions are critical to our success as a well oiled and efficient 'forever startup'.

You have an innate ability to maintain composure in an extremely fast paced environment. You are a reference point in an environment where rules change on a daily basis. You are able to track what works & repeat, also discard what does not work with ease. You can make your voice heard and take charge when needed.

The ideal candidate does not need supervision. Having a STEM background is much desired (B.Sc. or M.Sc.) but non STEM backgrounds will be considered.

Experience & Additional Qualifications:

Deep and demonstrable Experience & Additional Qualifications with the neuron simulation environment.

Previous hands on experimental work in vivo in vitro neurophysiology or electrophysiology is desirable.

Excellent programming skills in Python, Matlab, Statistical Analysis & Related Packages and other open tools in neuro simulations.

Detailed Job Description:

Perform clerical functions such as arranging meetings/conference calls, scheduling appointments for CEO and leadership team.



Prepare meeting notices, minutes, and statistical information. Organise follow up with staff, customers and investors.

Supervise and place orders of all office supplies, stamps, paper supplies and copy machine supplies.

Own and manage entire office complex, maintain professional posture in the office/building, handle reception and related matters.

Manage press correspondence, keep social media accounts relevant

Organise lab visits and tours. Answer questions, handle inquiries and refer to appropriate sub-teams.

Attend Management & Board meetings and take minutes and distribute.

Maintain, update, organize, and file correspondence, documents and verifying completeness, storage and retrieval.

Arrange travel, maintain and review travel guidelines.

Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Job 7

Short Description:

3D lithography Engineer (Multiphoton Optics or related)

Summary:

A senior engineer with a strong work ethic and experience in 3D lithography using multiphoton optics or related technologies. You will lead in-house efforts in design, test and implementation of complex microstructures. You will also achieve metalization in these devices. You will coordinate all 3D design efforts from the nanoscale to macroscale.

The ideal candidate has a PhD or equivalent in physics, optics, micro systems. Previous work in Neuroscience is especially beneficial but not mandatory. But you demonstrate a strong interest in biology with a deep understanding of biocompatible polymers or materials. You are hungry to learn more.

Experience & Additional Qualifications:

3+ yrs experience in cleanroom developments and post processing including: photolithography, Nanoimprint lithography, Reactive ion etching, Metallization/material deposition Device packaging. Experience in semiconductor devices, photonics and CMOS technologies. You have experience in material characterisation: AFM SEM, TEM, XPS and others.

PhD in Physics, Photonics, Nano or Micro Technology or equivalent with 3–5 years of experience. M.Sc. accepted with 10+ years experience.

Prior experience in patent review and the patent process is desirable.

Detailed Job Description:

Coordinate all 3D design and implementation efforts for test and production. Provide detailed input to automation processes. Develop cost effective scale up requirements for these devices >100K devices per year. Seek fabrication facilities for mass production.



Develop strategies for maintaining a comparative advantage as regards in house fabrication of process steps vs. outsourcing with a view to maintaining competitive advantage and IP generation.

Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Job 8

Short Description:

Lead Automation Engineer

Summary:

Yes, all laboratory tasks can be automated – all. The ideal candidate is passionate about automation and automating our entire lab R&D and manufacturing.

We are building next generation lab automated processes which work alongside human biotech developers. The ideal candidate has deep expertise in complex laboratory automation systems, integration of commercial laboratory instrumentation with customized hardware and software. You will guide the evolution of our data archiving systems and integrate same with our automated lab.

A strong record of successful delivery of high quality complex automation/software solutions. Genuine leadership qualities will help you thrive in this role.

Experience & Additional Qualifications:

M.Sc. or PhD degree in Life Sciences, Computer Science, Physical Science or Engineering or related field with 7+ years of relevant experience. Experience integrating laboratory automation equipment such as liquid handlers, automated stores, experiment execution platforms, analyzers and robotics. Scheduling and modelling algorithms and strategies.

Analytical skills necessary to plan for, design or enhance highly complex systems and programs, resolve problems requiring a comprehensive and state of the art awareness of automation and instrumentation.

Detailed Job Description:

Identify, architect, build and maintain Koniku's laboratory automation framework for R&D, device manufacturing/scale-up. Identify contractors for 3rd party manufacturing that meet regulatory requirements.



Identifies and contributes to hiring of new talent. This role reports directly to the CEO.

Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Job 9

Short Description:

Research Associate

Summary:

A bright scientific mind with a great attention to detail to work with and report to scientists in the Koniku biolab. The biolab team will work on 6 – 12 month delivery timelines involving several large cell–based screening assay. The research associate will be expected to conduct impeccable experiments and to carefully collect experimental data and observations. You will be asked to generate 100+ genetic construct variants with the aid of an automated liquid handling system.

The ideal candidate is highly meticulous, patient and articulate.

A MSc with 2+ years of industry experience or PhD in Biology or related field and publications in molecular biology.

Experience & Additional Qualifications:

Familiarity with mammalian cell culture, Extensive Cloning and sub–cloning experience for DNA constructs (point mutation, saturating mutations and variant library development) Techniques required: qRT–PCR, nucleic acid isolation, transfections, spectroscopy, primary cell culture, FACS, Western Blot. Experience in small molecule screening is appreciated. Immunocytochemistry and live cell imaging experience is appreciated. Experience in cell signaling is appreciated (pathway crosstalk, phosphoblots).

PhD/MSc in Biology or related field + 2 years laboratory experience. Excellent skills in communication, organization, flexibility and an eagerness to learn. Must work well independently and in a team setting. Must be dependable, willing to follow procedural instructions and work with computers, and meticulous in maintaining a laboratory notebook. Must work with potentially hazardous materials and be able to lift up to 40 pounds, and be capable of standing, lifting, bending, etc., for extended periods of time.



Detailed Job Description:

Maintain cell cultures in the Koniku biolab. Perform hundreds of cDNA cloning and site directed mutagenesis and random mutagenesis. Perform microplate transfection and use plate reader for data collection. Perform initial data analysis and present data to other scientists one-on-one and in team meetings. Maintain accurate notes and document experimental observations.

Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Job 10

Short Description:

Cell Biologist/Neuroscientist

Summary:

A bright, purpose driven scientific mind with impeccable attention to detail. You will work alongside exceptional scientists in the Koniku biolab. The team works on quarterly delivery timelines involving several large, automated cell-based screening assays. This role be expected straddle 2 teams, computational neuroscience and wetware design. You will be required to generate and maintain induced pluripotent stem cells (iPSC). We need you to design 3D organoid systems of iPSC derived cortical neurons and astrocytes representative of real in vivo models.

The ideal candidate will have some experience of patterning such organoid with small molecules and other factor for timed release or upon the application of external stimulus. The chosen candidate will need a lot stamina and ability to manage separate work streams independently, generate new lines of inquiry with a view to solving customers pressing problems with exceptionally smart solutions.

Experience & Additional Qualifications:

Familiarity with mammalian cell culture, neuron cell culture, organoid generation especially within artificial systems i.e. PDMS enclosures or with other biocompatible materials.

PhD/MSc in Biology or related field + 2 years laboratory experience. Excellent skills in communication, organization, flexibility and an eagerness to learn. Must work well independently and in a team setting. Must be dependable, willing to follow procedural instructions and meticulous in maintaining a laboratory notebook. Must work with potentially hazardous materials and be able to lift up to 40 pounds, and be capable of standing, lifting, bending, etc., for extended periods of time.



Detailed Job Description:

Maintain cell cultures in the Koniku biolab. Perform microplate transfection and use plate reader for data collection. Perform initial data analysis and present data to other scientists one-on-one and in team meetings. Maintain accurate notes and document experimental observations.

Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Job 11

Short Description:

Design Engineer

Summary:

You are user obsessed. Your previous role demonstrates how you focused on, and succeeded in solving the user's problem. Especially how you were able to make a physical device user friendly and unobtrusive. You made the user connect the device or solution in a fundamental way.

You deeply understand the power of a narrative at a visceral level, that understanding pervades your work. Your mindset is: "design that works effortlessly". You can demonstrate an unusual degree of interest in biotech and biosystems.

You are able to design into industrial and consumer workspaces with ease. Strong organizational skills and the ability to synthesize vast amounts of new technical information into design concepts which tell a compelling story from scratch to finish. Creation of 3D/2D definition of parts, assemblies and installations.

Experience & Additional Qualifications:

Bachelor's degree or higher in industrial design, art and design with some technical focus, engineering, physics, or equivalent experience. 5+ years of industry experience in industrial design. Some experience in any of the following is valued: brand alignment or infrastructure design. Strong experience with conceptual Solidworks (or other CAD tools) modelling. Exceptional attention to details.

You can interact comfortably with senior level executives from major firms. You are an effective communicator. You can work with constantly changing goals and really tight deadlines. You have a strong work ethic.



Detailed Job Description:

Weave many strands of technologies from various teams into a coherent product which solves a problem and tells a story.

Provide conceptual CAD view of upcoming products, oversee prototyping and help demonstrate those prototypes to customers.

Further streamline internal development cycles for various verticals. Ensuring that design modules can be reused in multiple verticals.

Prior experience in patent review and the patent process is desirable.

Interface with external design teams to deliver on major initiatives.

Additional Requirements:

Willing to work overtime and weekends as needed is a must.

To conform to ITAR regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State.

Equal Opportunity Employer; We hire for individual competence, retain on results, advance for excellence – no exceptions.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.



Unlisted Jobs

Short Description:

Unlisted Teams

Summary:

If you feel none of the listed jobs match you, your speciality is unlisted or you strongly feel you are what we need if we don't know yet? Please reach out and tell us why. Or schedule a visit to the lab if you are in the Bay Area.

We always have job openings for currently unlisted projects.

Application details:

Please send application materials to cv@koniku.io. We are especially keen on examples of previous 'side projects' or main body of work which demonstrate your interests and commitment.

