

**Company :** Sleepiz (India) Pvt. Ltd.  
**Company Name :** Sleepiz (India) Pvt. Ltd.  
**Nature Of Business :** Medical Technology  
**Designation :** Signal Processing Engineer  
**Tentative Job Location :** Pune

#### Who We Are

Sleepiz AG (Ltd.) is a Zürich based startup with a mission to provide patient-centric disease management through seamless integration of contactless monitoring into people's homes. Sleepiz leverages the power of sleep insights with a device that is simply placed on the bedside table. The device operates in a non-contact fashion and measures movements originating from heart contractions and breathing patterns, as well as body motions with medical grade accuracy.

While currently focusing on respiratory illnesses, Sleepiz aims to improve people's lives by creating the future of healthcare. By making use of wireless millimeter wave technology, sensor fusion and artificial intelligence, in the future Sleepiz will not only be able to diagnose sleep disorders but also perform long-term monitoring. Thereby, the progression of chronic diseases will be monitored to allow faster intervention and better treatment.

Sleepiz is touching lives without touching.

#### What You Will Do

You will work within the digital signal processing team to develop robust algorithms for vital signs estimation. Your job responsibilities will include:

- Investigate strategies to estimate and characterise breathing and heart rate patterns for processing a doppler radar signal which is the key driver of innovation in the field of contactless sleep health monitoring.
- Implement, test, maintain and document the best-performing algorithms in enterprise grade code.
- Work in close collaboration with data science and software teams on relevant projects

#### Who You Are

We're seeking an individual who is passionate about dynamic experimentation, has a passion for details and a fail-fast attitude. Your qualifications should include:

- Pursuing a degree in equivalent of Electronics and Communication, Electrical Engineering, or System & Control Engineering
- Strong fundamentals in signal and systems (analysis in both continuous and discrete domains)
- Knowledge of frequency domain algorithms
- Strong mathematical foundation
- Knowledge of time series analysis
- Python or MATLAB programming skills
- Thrive in interdisciplinary environments and have strong communication abilities
- Curious, inquisitive, collaborative with a deep appreciation for diversity

#### Preferred qualifications include:

- Experience with radar signals and multi-antenna signals
- Knowledge of doppler radar principles, operation of CW and FMCW radar
- Knowledge of machine learning algorithms

#### What We Offer

We are a dynamic, interdisciplinary, highly skilled team that is passionate about sleep. At Sleepiz:

1. We believe that every breath counts
2. We allow people to manage their health at home for as long as possible
3. At the heart of our value creation we center both, the patient and the physician
4. We strive for transparency, honesty, precision and quality in everything we do

Sleepiz (India) Pvt. Ltd. is home to alumni from IIT-Bombay, IIT-Madras, UT Dallas, University of Sheffield, Michigan State University amongst other tier I institutions and engage in weekly friendly football matches (online games in the time of COVID-19!). We pride ourselves in fostering a fun and energetic start-up culture in a relaxed environment. As a part of our dedication to the diversity of our workforce, we offer flexible working hours together with a high degree of self-responsibility and freedom. Further, we operate with integrity, accountability and creativity and have high employee satisfaction (based on quarterly reviews). We provide performance-oriented compensation, equity ownership, group health insurance benefits and flexible paid time off policies. You would have ample collaboration and growth opportunities in a truly global and cross-functional team.

Sleepiz is an active proponent of gender equality in STEM. Female candidates are strongly encouraged to apply.

	Program	AE	BSBE	CE	CHE	CSE	EE	ES	ME	MSE	PHY	CHM	MTH	ECO	DES	IME	CGS	HSS	EEM	MSP	NET	PSE	Stats
<b>Eligibility :</b>	BT	No	No	No	No	Yes	Yes	--	No	No	--	--	--	--	--	--	--	--	--	--	--	--	--
	BS	--	--	--	--	--	--	No	--	--	No	No	No	No	--	--	--	--	--	--	--	--	--
	MT	No	No	No	No	Yes	Yes	No	No	No	--	--	--	--	--	No	--	--	No	No	No	No	--
	DoubleMajor	No	No	No	No	Yes	Yes	--	No	No	No	No	No	No	--	--	--	--	--	--	--	--	--
	dual	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	--	--	--	--	--	--	--	--	--
	dualB	No	No	No	No	Yes	Yes	--	No	No	No	No	No	No	--	No	--	--	No	--	No	No	--
	dualC	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	--	--	--	--	--	--	--
	Mdes	--	--	--	--	--	--	--	--	--	--	--	--	--	No	--	--	--	--	--	--	--	--
	MBA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No	--	--	--	--	--	--	--
	Phd	No	No	No	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	MSc	--	--	--	--	--	--	--	--	--	No	No	No	--	--	--	--	--	--	--	--	--	No
	MSR	No	No	No	No	Yes	Yes	--	No	No	--	--	--	--	--	--	No	--	--	--	--	No	--

Cost to Company :

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Gross salary: 16 LPA  
CTC: 20 LPA (including variable pay)

Compensation is delivered through holistic instruments such as:

- Package Details :
1. Annual fixed income (with different pay elements to maximize tax advantages)
  2. Variable income (performance pay or bonus)
  3. Non-cash benefits (reimbursement policy, flexible vacation and holiday policy and group health insurance)
  4. Employee Stock Options (ESOPs)

Bond : False  
CPI CutOff : 0.0

Medical Requirments :

Resume Shortlist : True

Resume Shortlist Criteria: CGPA: 8 and relevant coursework or projects

Aptitude Test: False

Group Discussion: False

Technical Test: False

Technical Interview: True

Technical Interview Duration: 1 hour

Number of Techincal Interview Rounds: 2

HR Interview: True

HR Interview Duration: 30 mins

Additional Information: Students are requested to submit a motivation letter/cover letter with their resumes