

## **Solidity developer tech assignment**

Your task is to create a staking contract.

Users stake different quantities of ERC-20 token named "TKN". Assume that an external caller would periodically transfer reward TKNs to a staking smart contract (no need to implement this logic). Rewards are proportionally distributed based on staked TKN.

Contract caller can:

- Stake
- Unstake (would be a plus if caller can unstake part of stake)
- See how many tokens each user can unstake

Main info:

- Use Solidity as a main language (version higher than 0.4.0)
- Cover contract with unit tests. You can use Truffle or Hardhat

When finished, push code to your github and provide a link for us.

If you have any questions - feel free to write to us.

Good luck!